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ools and Benches

FOR

MANUAL TRAINING

AND

TECHNICAL SCHOOLS

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Catalogue No. 87.

HAMMACHER, SCHLEMMER & CO.,
NEW YORK.

Catalogue No. 87.

TOOLS & BENCHES

FOR

MANUAL TRAINING

AND

TECHNICAL SCHOOLS.

HAMMACHER, SCHLEMMER & CO.,

209 BOWERY, NEW YORK.

INTRODUCTORY.

IN this CATALOGUE we have aimed to present only such items as have been most demanded in our extensive school trade, which runs back over a period of nearly 15 years.

SINCE 1848 we have been supplying TOOLS FOR ALL TRADES, both of Domestic and Foreign manufacture, and we have united the experience thus gained with careful study and observation of tool-requirements for schools.

Owing to the marked and rapid increase of special departments for the promotion of the work and in fact the increase of Technical and Manual Training Schools throughout the country, the tool demands are constantly increasing and it is therefore impracticable to attempt to incorporate into a catalogue, all of the items which may be called for, and if our book does not contain your requirements, we should be pleased to have a list of such goods, with permission to name prices. Our stocks are large and carefully selected and our facilities for handling tool orders are not surpassed anywhere in the United States.

HAMMACHER, SCHLEMMER & CO.

209 BOWERY, NEW YORK.

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CARPENTRY OUTFIT No. 1.

Please substitute this page for Page 1 in our catalogue.

1 Disston's Back Saw, No. 4, 10 in.
1 Hammond's Adze-eye Claw Hammer, No. 3.
1 Bailey's Iron Adjustable Smooth Plane, No. 3.
1 Buck Bros.' Firmer Chisel, No. 2, $\frac{1}{4}$ inch, Handled and Sharpened.
1 " " " " " $\frac{1}{2}$ " " " "
1 Russell Jenning's Dowel Bit, $\frac{5}{16}$ inch.
1 " " " " $\frac{1}{2}$ "
1 Barber's Brace, No. 223, 8 in. sweep.
1 Sliding T Bevel, No. 25, 8 in.
1 Iron Handled Try Square, No. 12, 6 in.
1 Marking Gauge, No. 64½.
1 B. & F. Round Blade Screwdriver, 4 in.
1 Buck Bros.' Round Point Nail Set (about $\frac{1}{16}$ inch point.)
1 Round Hickory Mallet, No. 4.
1 Rule, No. 42, 2 foot.
1 Sloyd Knife, No. 7.
1 Dixon's Drawing Pencil, No. 725.
1 Sharpening Outfit, No. 1.
1 Bench Duster, No. 10.
1 Maple Bench Hook.
1 H. S. & Co.'s Manual Training School Bench "J."

Per Set, - - - - - - - $18.50

The Tools in this outfit are first class in every respect; are all of standard makes, and the sizes and assortment such as have been generally adopted by schools to which we have furnished Supplies and Tools.

CARP[illegible] JTFIT No. 1.

1 Disston's Back Saw, No.
1 Hammond's Adze-eye Claw Hammer, No. 2.
1 Bailey's Iron Adjustable Jack Plane, No. 5.
1 Buck Bros.' Firmer Chisel, $\frac{1}{4}$ inch, Handled and Sharpened.
1 " " " " 1 " " " "
1 Russell Jenning's Dowel Bit, $\frac{5}{16}$ inch.
1 " " " " $\frac{1}{2}$ "
1 Barber's Brace, No. 14, 6 in. sweep.
1 Sliding T Bevel, No. 25, 8 in.
1 Iron Handled Try Square, No. 12, 6 in.
1 Marking Gauge, No. 64½.
1 B. & F. Round Blade Screwdriver, 4 in.
1 Buck Bros.' Round Point Nail Set (about $\frac{1}{16}$ inch point.)
1 Round Hickory Mallet, No. 4.
1 Rule, No. 42, 2 foot.
1 Sloyd Knite, No. 7.
1 Dixon's Carpenters' Pencil, No. 511.
1 Sharpening Outfit, No. 1.
1 Bench Duster, No. 10.
1 Maple Bench Hook.
1 H. S. & Co.'s Manual Training School Bench "J."

Per Set, - - - - - - - $20.75

The Tools in this outfit are first class in every respect; are all of standard makes, and the sizes and assortment such as have been generally adopted by schools to which we have furnished Supplies and Tools.

Above price is net and subject to change without notice.

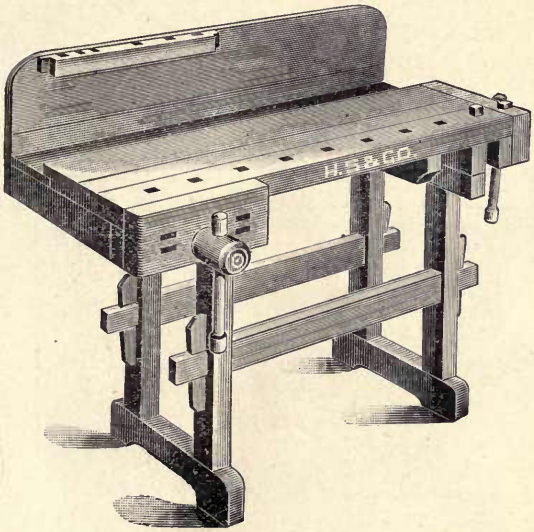
CARPENTRY OUTFIT No. 2.

1 Disston's Cross-cut Saw, No. 7, 22 in.
1 " Rip Saw, No. 7, 22 in.
1 " Back Saw, No. 4, 10 in.
1 Hammond's Adze-eye Claw Hammer, No. 2.
1 Bailey's Patent Adjustable Iron Smooth Plane, No. 3.
1 " " " " Jack " No. 5.
1 Buck Bros.' Firmer Chisel, $\frac{1}{4}$ inch, Handled and Sharpened.
1 " " " " $\frac{1}{2}$ " " " "
1 " " " " 1 " " " "
1 " " " Gouge, $\frac{1}{4}$ " " " "
1 " " " " $\frac{1}{2}$ " " " "
1 Russell Jenning's Dowel Bit, $\frac{1}{4}$ inch.
1 " " " " $\frac{3}{8}$ "
1 " " " " $\frac{1}{2}$ "
1 Barber's Brace, No. 14, 6 in. sweep.
1 Eagle Sliding T Bevel, 9 in.
1 Iron Handled Try Square, No. 12, 6 in.
1 Marking Gauge, No. 64½.
1 B. & F. Round Blade Screwdriver, 4 in.
1 P. S. & W.'s Winged Divider, 6 in.
1 Buck Bros.'s Round Point Nail Set (about $\frac{1}{16}$ inch point.)
1 Round Hickory Mallet, No. 4, 2¼ inch face.
1 Bench Rule, No. 2, 1 foot.
1 Sloyd Knife, No. 7.
1 Dixon's Carpenters' Pencil, No. 511.
1 Sharpening Outfit, No. 2.
1 Bench Duster, No. 10.
1 Maple Bench Hook
1 H. S. & Co.'s Manual Training School Bench "J."

Per Set, - - - - - - - - $26.00

This outfit is in all respects the same as No. 1, only it has a larger assortment of tools.

MANUAL TRAINING SCHOOL BENCHES.



"J."

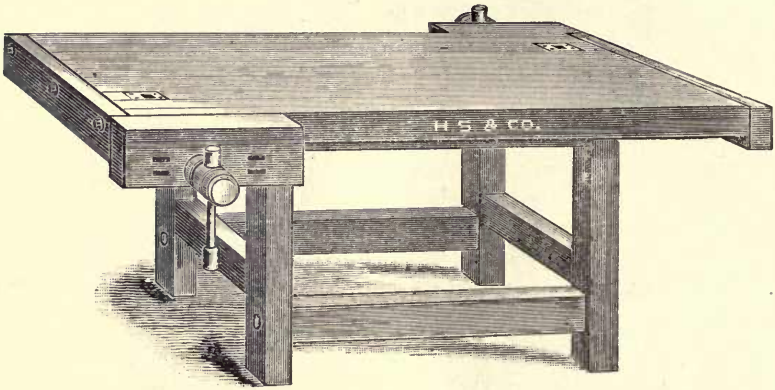
This is our standard school bench, and since it has been on the market has met with extremely favorable reception.

It is made of selected maple throughout, except the screws which are of hickory, two inches thick. Our vise construction is the result of careful experiment, and as now made equalizes the strain so that it is distributed over the entire bench top. The lumber is all thoroughly seasoned, and the bench is carefully put together, all joints being glued where practicable. It has wooden bench stops and a tool rack. It is very rigid and strong, and is provided with lag screws by which the legs may be bolted to the floor, and the top fastened to the legs if desired. The dimensions are as follows: 4 feet long, 18 inches wide, and recess 6 inches wide. The height can be adjusted by means of blocks to 28, 30 and 32 inches, Our "H" bench is a modification of "J," but is of the same dimensions, and made in the same manner.

"J" as illustration ..... Each, $12.00
"H" same as "J" but with head screw only. .... " 10.50

Above prices are net and subject to change without notice.

MANUAL TRAINING SCHOOL BENCHES.



"N."

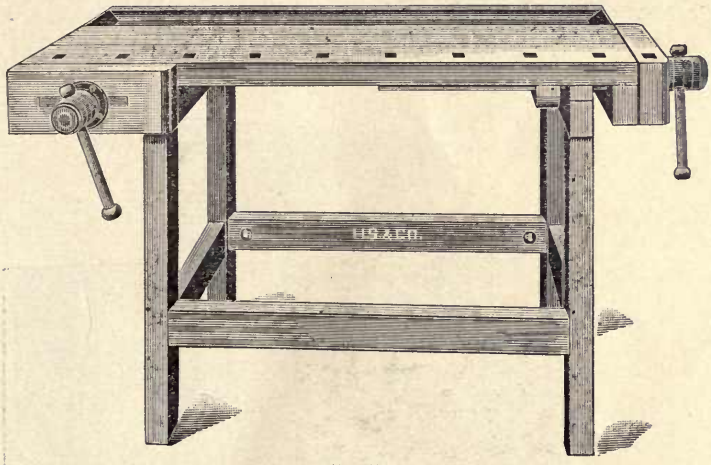
These are of the same general construction as our "J" bench, being intended for two pupils, but have no tool rack nor recess in the center. They are somewhat heavier than our "J" benches.

"N." For two pupils—5 ft. long, 30 in. wide, 32 in. high, has two head screws and two Morrill's Bench Stops.

"O." Same as **"N,"** with the addition of two drawers and closet with two shelves.

Prices upon application.

MANUAL TRAINING SCHOOL BENCH.



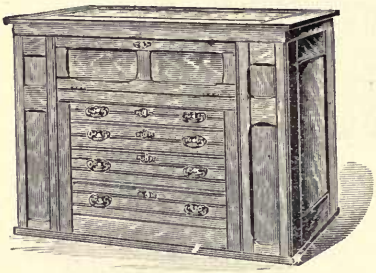
"Q."

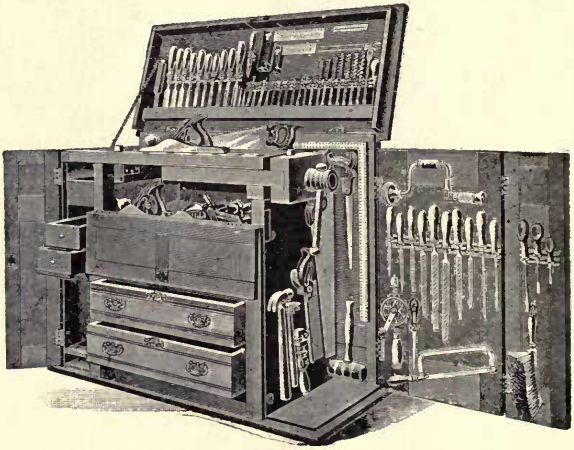
Our "Q" Bench is made of maple throughout except the screws, which are of hickory 1½ in. diameter. The top is made of 1¾ in. strips glued together, and is provided with two wooden bench stops. The dimensions are as follows: 4 feet 3 inches long, 21 inches wide, and 32 inches high; recess 7 inches wide.

"Q" Bench..... Each, $7.75

The above price is net and subject to change without notice.

COMBINATION BENCH AND TOOL CABINET.





This comprises a practical work bench, with a complete tool cabinet, so arranged as to form, when closed, a handsome piece of furniture. The bench top is made of carefully selected and thoroughly seasoned maple, the vise having a 1¾-inch hickory screw, and opening eight inches. The front, sides and cover are made of oak, handsomely finished; the drawers and doors being provided with brass, flat-keyed locks, so as to protect the tools from meddling, etc. The cover and side door are fitted with tool racks, etc., provision being made for a very complete kit of tools without encroaching on the space provided for screws, nails and other supplies. Outside dimensions when closed are: Length, 47 inches; Width, 19 inches; Height, 35 inches.

Price for Cabinet without tools.....$35.00

Price for Cabinet with high grade tools, list of which will be found on opposite page..... 80.00

Above prices are net and subject to change without notice.

LIST OF TOOLS

FOR

COMBINATION BENCH AND TOOL CABINET.

7 Handled and Sharpened Firmer Chisels,
3 Handled and Sharpened Firmer Gouges.
7 Auger Bits, 1 Expansive Bit,
7 Gimlet Bits, Hand Saw,
Rip Saw, Back Saw,
Compass Saw, Iron Pad Keyhole Saw,
Adze Eye Hammer, Riveting Hammer,
Round Lignum-vitæ Mallet,
Jack Plane, Smooth Plane,
Block Plane, Rabbet and Filletster Plane,
Ratchet Brace, Hand Drill,
Sliding T Bevel, 2 Try Squares,
Steel Carpenters' Square, Boxwood Rule,

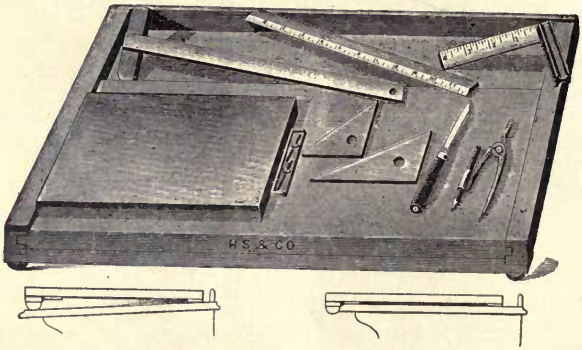
Marking Gauge, 3 Round Blade Screwdrivers,
Winged Divider, Sloyd Knife,
Spokeshave, Marking Awl,
Cabinet Scraper, Sandpaper Cork,
Flat Nosed Plyers, Round Nosed Plyers,
Nickel Plated Bell Hangers' Plyers,
Cutting Plyers, Burner Plyers,

Pipe Wrench, Vise, Tinners' Snip,
Carpenters' Pincers, Monkey Wrench,
9 Bit Stock Drills, 2 Warding Files,
2 Flat Bastard Files,
2 Half Round Bastard Files,
2 Round Bastard Files,
2 Cabinet Files, Cabinet Rasp,
Level, Brass Plumb Bob, with line,
Mitre Box, Sharpening Outfit,
Hack Saw, Glass Cutter,
Bench Duster, Screwdriver Bit,
Countersink, 2 Nail Sets,
Octogon Reamer.

The above tools are all of the best quality, and ready for immediate use. The sizes are such as are best adapted for home use.

See preceding page for prices on the Combination Bench and Tool Cabinet.

IMPROVED WHITTLING TRAY.



The Tray measures 12½ x 21¾ inches, is carefully made out of thoroughly seasoned lumber, has a unique clamp which will hold a block up to nine inches wide and a recess 4 x 20 inches for tools, and is adjustable to slanting or level desks.

The tools are well adapted for the work for which they are intended, and are all up to our usual high quality standard.

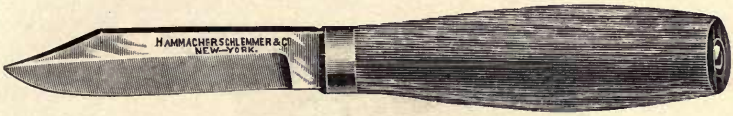
The Sloyd Knife, our No. 7 has a 2½ inch blade, so that it can be used by young children.

TRAYS. Without tools.....Per doz., $9.00
Each, .90

TOOL OUTFITS. Consisting of 1 Sloyd Knife, 1 Dividers, 2 Triangles, 1 Bench Rule, 1 T Square, 1 Try Square,
Per dozen sets, 9.50
Per set, .95

Above prices are net and subject to change without notice.

SLOYD KNIVES.



Nos. 6 and 7.

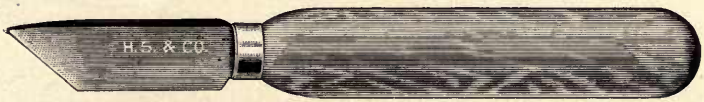
No. 2.

No. 3.

		Per Doz.	Each.
No. 2.	Extra quality, $2\frac{3}{8}$ inch blade	$2.00	.20
" 3.	" " $2\frac{5}{8}$ " "	2.25	.23
" 6.	" " $2\frac{3}{4}$ " "	4.50	.45
" 7.	" " $2\frac{1}{2}$ " "	4.50	.45

WOOD CARVERS' KNIVES.

No. 1

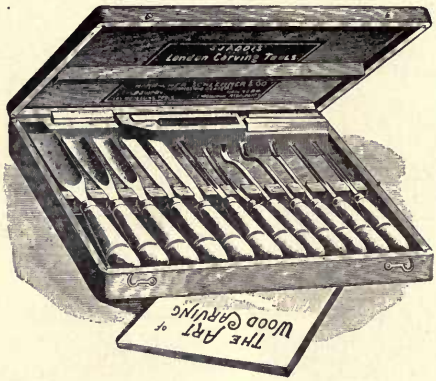


No. 2.

		Per Doz.	Each.
No. 1.	Extra quality, $2\frac{1}{2}$ inch blade	$2.00	.20
" 2.	" " $1\frac{7}{8}$ " "	2.00	.20

The above prices are net and subject to change without notice.

S. J. ADDIS' CARVING TOOLS IN SETS.



Nos. 1 and 2 include twelve handled and sharpened carving tools, viz.: No. 1, ½ in.; No. 2, ⅝ in.; No. 3, 1 in.: No. 5, ⅛ and ½ in.; No. 8, ⅝ in.; No. 11, ⅛ in.; No. 17, 3-16 in.; No. 21, ¼ in.; No. 32, ⅛ in.; No. 39, 3-16 in.; and 44, ⅛ in.; one Washita oil stone, one Washita round edge slip, one Arkansas triangular file, one special Washita carving tool slip, one Carvers' Marker No. 8, and an illustrated book of instructions.

Set No. 1, with round maple handles.....Each, $6.00
" 2, " octagon " " ..... " 6.50

Nos. 3 and 4 include six handled and sharpened carving tools, viz.: No. 1, ½ in.; No. 5, ½ in.; No. 11, ⅛ in.; No. 17, ¼ in.; No. 21, 5-32 in.; and No. 39, 3-16 in.; one Washita oil stone, one special Washita carving tool slip, one Carvers' Marker No. 8, and an illustrated book of instructions.

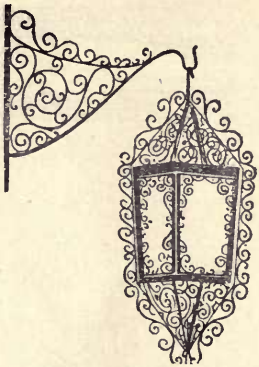
Set No. 3, with round maple handles.....Each, $3.25
" 4, " octagon " " ..... " 3.50

THESE SETS

must not be confounded with the cheap class of carving tool sets usually offered for sale. The carving tools are of the well-known S. J. Addis' London make, the sizes and sweeps being those generally used by practical wood carvers, and everything in the set is carefully selected and of the best quality.

We issue a separate catalogue showing a complete line of Wood Carvers' Tools with accessories, a copy of which will be sent upon application.

VENETIAN IRON WORK.



The increasing popularity of Venetian Bent Iron Work is explainable when one considers that the thousands of graceful little curves interwoven into candlesticks, lamps, etc., are not only pleasing to the eye, but are of real value as dainty house-furnishings. The work has been included in the regular course in a number of prominent Manual Training Schools, and is largely practiced in the homes throughout the country.

IRON IN STRIPS.

	1/8	3-16	1/4 inch.
Per coil of 50 feet	$0.16	.18	.21

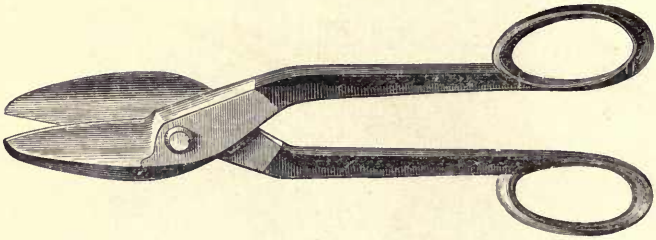
(1/4 and 3-16 in. are mostly used).

BINDERS.

1/8, 3-16 and 1/4 inch ..... Per hundred, $0.10

Above prices are net and subject to change without notice.

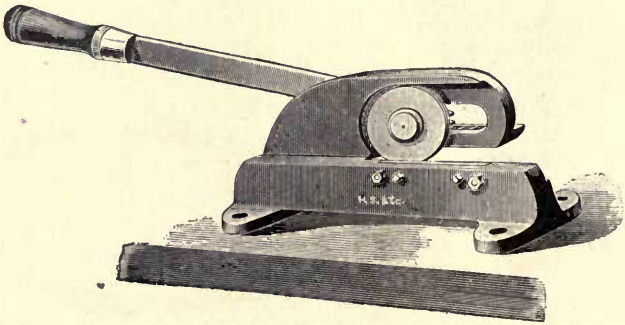
METAL SNIPS.



	No.	8	9	10
	Cuts,	3½	3	2½ in.
P. S. & W.	Each,	$1.70	1.30	1.20
Compton's	"	1.35	1.00	.95

ROLLING CUTTER SHEARS.

FOR CUTTING VENETIAN IRON.

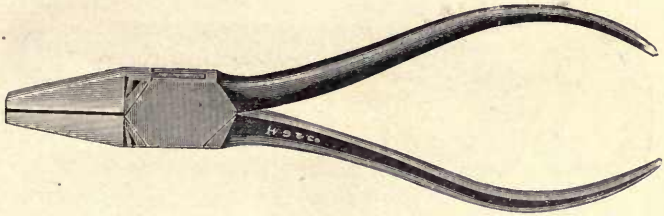


These shears are simple in construction, and can be safely operated by a child. One of them placed in a class will be found a great aid to the pupils.

No. 11. Will cut No. 20 Iron.....Each, $4.80
" **12.** " " No. 16 " ..... " 7.20

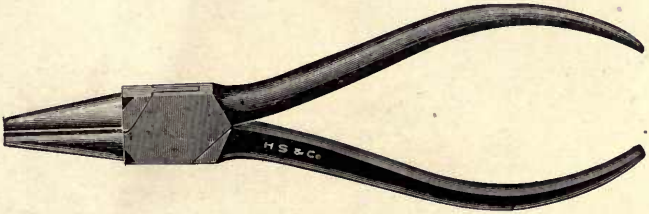
The following tools are also used in the construction of Venetian Bent Iron Work. Riveting Hammers, No. 0. Shown on page 36. Bench Vises, No. 2½. Shown on page 92.

FLAT NOSE PLYERS.



			3½	4	4½	5	5½	6
No. 20.	Cast Steel Black....	Per doz.,	$2.15	2.15	2.40	2.55	2.95	3.45
		Each,	.22	.22	.24	.26	.30	.35
" 4109.	" " Polished..	Per doz.,	...	...	2.70	3.15	3.50	5.00
		Each,	...	...	.27	.32	.35	.50
" 1806½.	Hand Forged Steel, Black, Best Quality	Per doz.,	3.38	3.38	3.38	3.75	4.35	5.10
		Each,	.34	.34	.34	.38	.44	.51

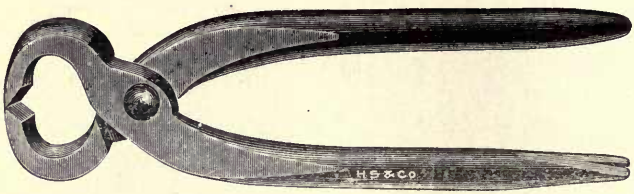
ROUND NOSE PLYERS.



			3½	4	4½	5	5½	6
No. 21.	Cast Steel, Black...	Per doz.,	$2.15	2.15	2.40	2.55	2.95	3.45
		Each,	.22	.22	.24	.26	.30	.35
" 1806¾.	Hand Forged Steel, Black, Best Quality.	Per doz.,	3.38	3.38	3.38	3.75	4.35	5.10
		Each,	.34	.34	.34	.38	.44	.51

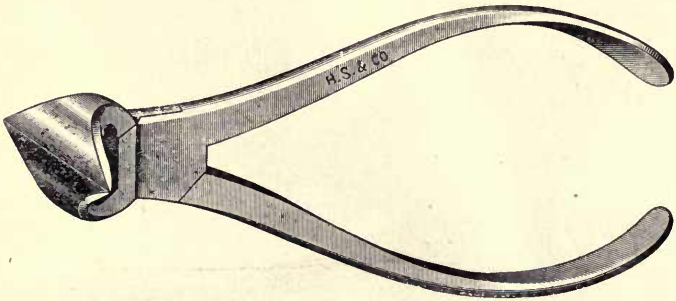
The above prices are net and subject to change without notice.

CARPENTER'S PINCERS.



		6	7	8	9	10 in.
No. 474. Cast Steel, Polished Jaw, Best.	Per doz.,	$1.60	1.95	2.70	3.90	5.00
	Each,	.16	.20	.27	.39	.50

CUTTING NIPPERS.



GERMAN, BLACK.

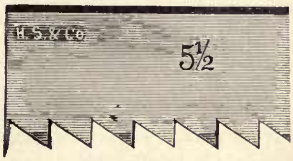
		3½	4	4½	5	5½	6 in.
No. 1306A	Per doz.,	...	$4.80	4.80	4.80	5.33	5.85
	Each,	...	.48	.48	.48	.53	.59
" **1306AY.** Best	Per doz.,	$8.65	8.65	8.65	8.65	9.50	10.15
	Each,	.85	.85	.85	.85	.95	1.00

Above prices are net and subject to change without notice.

PANEL, HAND AND RIP SAWS.

The following cuts represent the full sizes of the Points per inch, of the Panel, Hand and Rip Saws, which we carry in stock. Be careful not to confuse the Points with the Teeth, as there is always one more point, per inch, than there are teeth.

5 Points, Rip.
For 24 to 28 inch Saws.



5½ Points, Rip.
For 20 to 28 inch Saws.

6 Points, Crosscut.
For 26 and 28 inch Saws.
6 Points, Rip.
For 20 to 24 inch Saws.

7 Points, Crosscut.
For 22 to 28 inch Saws.

8 Points, Crosscut.
For 16 to 28 inch Saws,

9 Points, Crosscut.
For16 to 26 inch Saws.

10 Points, Crosscut.
For 16 to 26 inch Saws.

11 Points, Crosscut.
For 16 to 26 inch Saws.

12 Points, Crosscut.
For 16 to 24 inch Saws.

Shows more explicitly the difference between a Point and a Tooth.

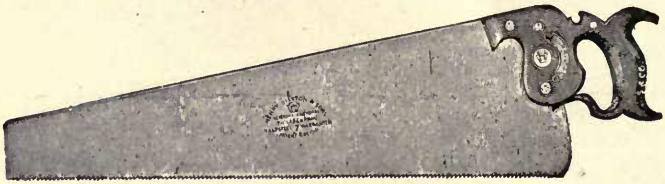
HAND, PANEL AND RIP SAWS.

HAMMACHER, SCHLEMMER & CO.'S "EXTRA."

This Saw has a Polished and Carved Applewood Handle, Patent Ground, Jessop's Steel, Highly Polished Blade, Thin Skew Back, is fully warranted, and is recommended for excellence of material and care in workmanship.

	16	18	20	22	24	26	28 in.
Crosscut.....Each,	$1.10	1.20	1.30	1.45	1.55	1.65	1.85
Rip..... "	1.10	1.20	1.30	1.45	1.55	1.65	1.85

DISSTON'S No. 7.



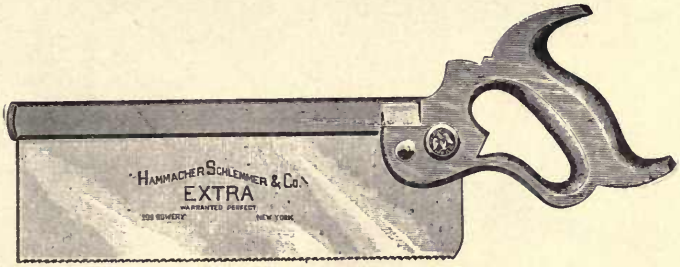
Warranted Fine Ribbed Cast Steel Blade, Beech Handle, Polished Edges, Four Improved Brass Screws.

	16	18	20	22	24	26	28 in.
Crosscut.....Each,	$0.80	.86	.98	1.10	1.16	1.22	1.44
Rip..... "	.80	.86	.98	1.10	1.16	1.22	1.44

Above prices are net and subject to change without notice.

BACK SAWS.

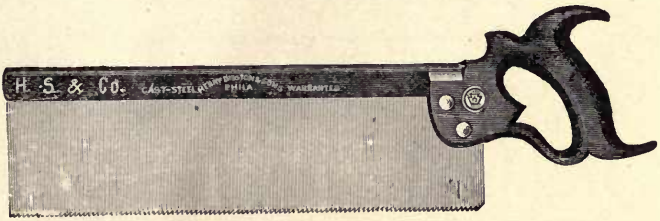
HAMMACHER, SCHLEMMER & CO.'S "EXTRA."



Polished Jessop Steel Blade, Heavy Blued Steel Back, Applewood Handle.

	8	10	12	14	16 in.
Each	$0.90	1.00	1.10	1.25	1.40

DISSTON'S No. 4.



Warranted Cast Steel, Blued Steel Back, Applewood Handle, Polished Edges, Three Improved Brass Screws.

	8	10	12	14	16 in.
Each	$0.84	.92	1.05	1.17	1.30

NOBLE'S No. 1.

Blued Steel Back, Beech Handle, Polished Edges, Three Improved Brass Screws.

	8	10	12	14	16 in.
Each	$0.57.	.63	.75	.90	1.00

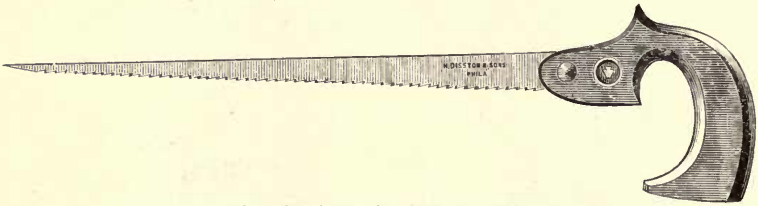
COMPASS SAWS.

HAMMACHER, SCHLEMMER & CO.'S "EXTRA."

Jessop's Steel, Thin Back, Polished and Carved Applewood Handle.

	10	12	14	16 in.
Each	$0.32	.34	.36	.38

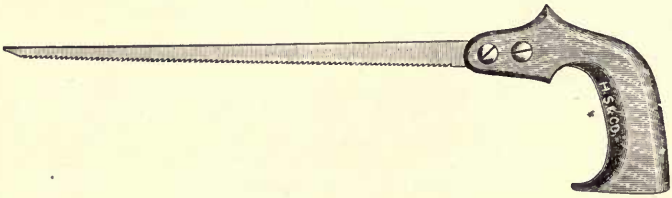
DISSTON'S No 2.



Cast Steel, Applewood Handle.

	10	12	14	16 in.
Each	$0.28	.30	.32	.33

KEYHOLE SAWS.

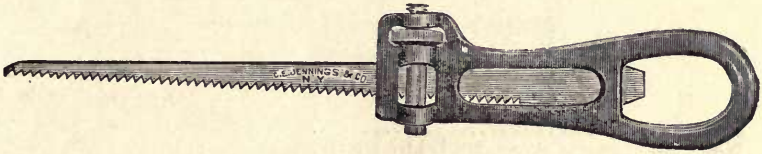


	10	12 in.
Richardson's, Applewood Handle.....Each,	$0.18	.20

Above prices are net and subject to change without notice.

IRON PAD KEYHOLE SAWS.

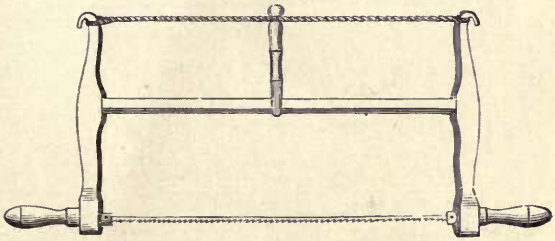
No. 1. Complete with Iron Handle.....Each, $0.16
Extra Blades..... " .11



Patent Adjustable Iron Handle.

No. 2. Complete with Iron Handle .....Each, $0.24
Extra Blades..... " .11

TURNING SAWS IN FRAMES.



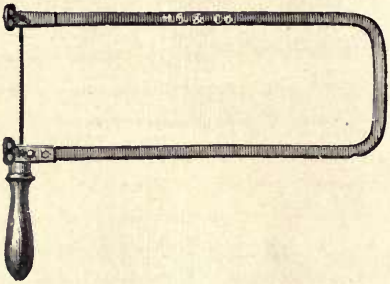
	12	14	18	24	30 in.
Each	$0.75	.85	1.05	1.25	1.50

TURNING SAW BLADES.

	12	14	18	20	24	26	28	30	32 in.
Per doz.	$0.97	1.07	1.34	1.50	1.87	2.07	2.30	2.54	2.80
Each	.10	.11	.13	.15	.19	.21	.23	.25	.28

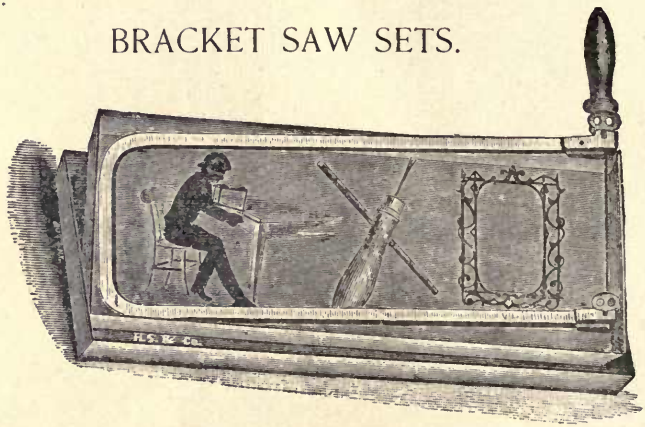
Above prices are net and subject to change without notice.

BRACKET SAW FRAMES.



			8	10	12 in.
Steel Frame,	Nickel Plated	Each,	$0.88	.96	1.05
No. 20.	Same as above, but lighter metal	"	.65	...	...
" **1061.**	Iron Frame Plain	"	..	...	.32

BRACKET SAW SETS.



These sets are packed in paper boxes, and include a Rosewood Handled Spring Steel Saw Frame, polished and nickle-plated, 5x12 inches, with patent Clamps for holding the Saw Blades and fifty full sized designs, embracing a great variety of fancy and useful articles; twelve Saw Blades, one Awl and one Sheet of Impression Paper.

No. 2. ..... Per set, $1.00

" **1.** In nicely finished oak box. Containing the same assortment of tools as above, with the addition of a Saw Table and 3 pieces of Cherry 9x14 in. and 3-16 in. thick ..... Each, $2.50

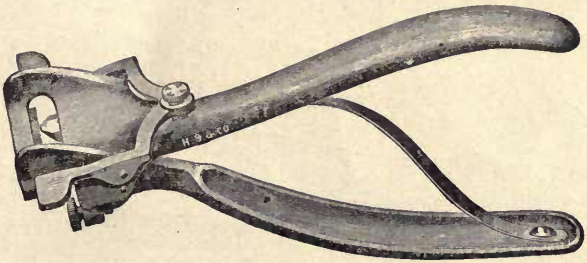
Above prices are net and subject to change without notice.

BRACKET SAW BLADES.

STAR BRAND.

	No.	0	1	2	3	4	5	6	8
5 in. long, for Wood	Per gro.,	$0.75	.75	.75	.75	.75	.75	.75	.90
	Per doz.,	.08	.08	.08	.08	.08	.08	.08	.09

MONARCH SAW SET.

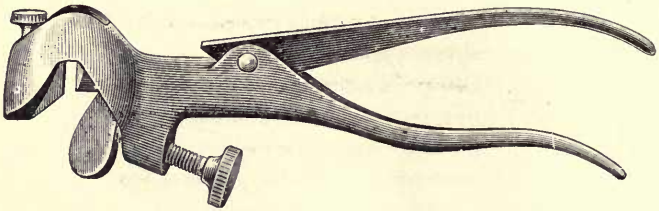


For Hand Saws of every description.

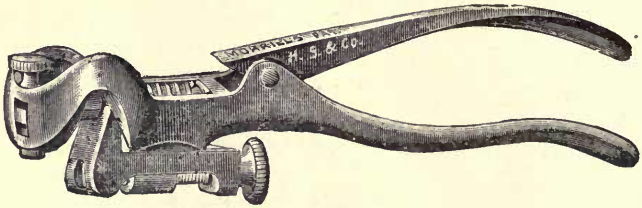
No. 1. Japanned.....Each, $0.50
" **2.** Polished..... " .70

Above prices are net and subject to change without notice.

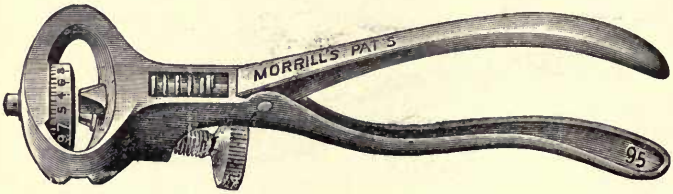
MORRILL'S SAW SETS.



No. 10. For Band, Scroll and Jig Saws, from No. 32 to 16 Gauge...Each, $0.80



No. 11. For Hand, Scroll and Band Saws from the thinest up to No. 16 Gauge.....Each, $0.85

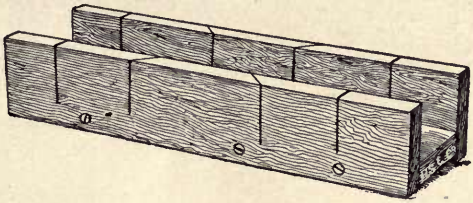


No. 95. For Hand Saws of every description, from No. 32 up to 16 Gauge.....Each, $0.80

Above prices are net and subject to change without notice.

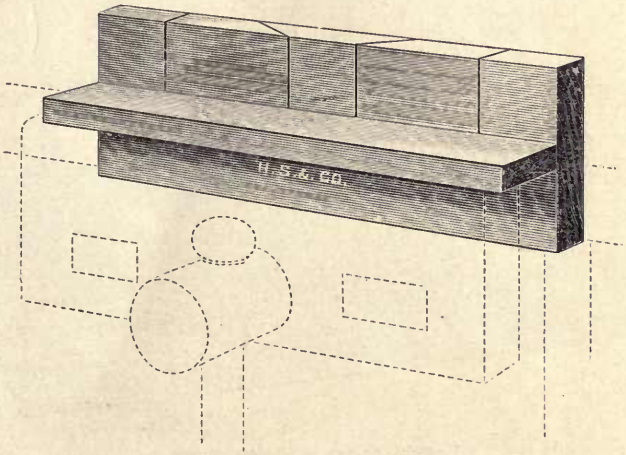
MITRE BOXES.

BEECH.



No. 00. 12 inches long, for 2x3 inch Moulding.... Per doz., $1.90 Each, $0.19
" **0.** 18 " " $2\frac{1}{4}$x$3\frac{3}{4}$ " " .... " " 2.90 " .29

MAPLE.

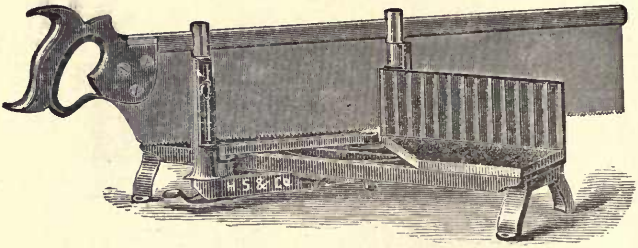


Designed particularly for School Use.

No. 10. 12 inches long, will take moulding up to $3\frac{1}{2}$ inches wide.
Per doz., $3.20; Each, $0.32

MITRE BOXES.

NEW LANGDON.

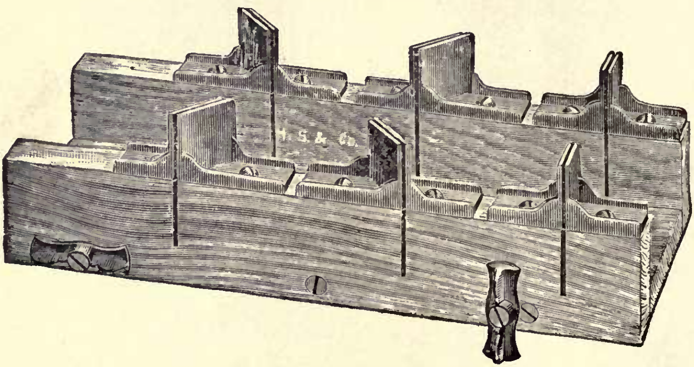


Arranged for Back Saw,

Size 1 gives 6 inches width at right angles, 4 inches at mitre; size 2 gives 9½ inches width at right angles, 6½ inches at mitre; size 2½ is same dimensions as size 2, but is made heavier and arranged for wider back saws.

	Each.		Each.
No. 17 is size 1, with 18 x 4 inch Saw....	$6.60	No. 22 is size 2, with 22 x 4 inch Saw....	$8.30
No. 18 " 1. " 20 x 4 " "	7.00	No. 23 " 2, " 24 x 4 " "	8.70
No. 19 " 1, " 22 x 4 " "	7.45	No. 24 " 2, " 26 x 4 " "	9.15
No. 20 " 1. " 24 x 4 " "	7.85	No. 25 " 2½ " 28 x 5 " "	10.20

OLMSTED PATENT.



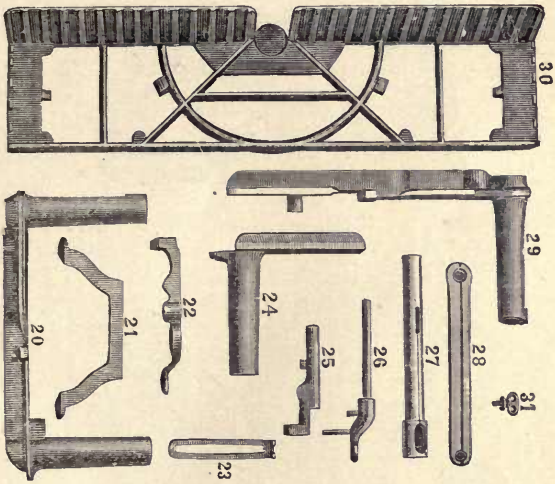
Adjustable to any thickness of Saw.

No. 3. For Moulding 1½ x 3 inches..........................Each, $1.25
" **4.** " " 2½ x 4 " .... " 1.75

Above prices are net and subject to change without notice.

EXTRA PARTS.

FOR NEW LANGDON MITRE BOX.

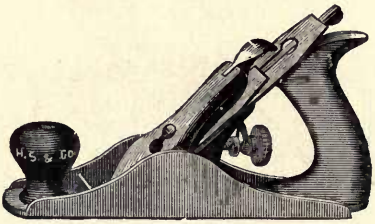


In ordering, please state number of piece, also for what size machine it is intended.

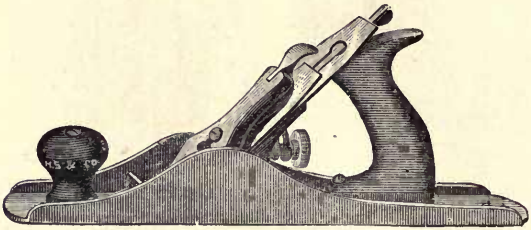
				No. 1.	No. 2.	No. 2½.
No.	20.	Swinging Lever	Each	$1.25	...	...
"	21.	Legs	"	.15	.15	.15
"	22.	Stop Lever	"	.30	...	...
"	23.	Stop Gauge	"	.10	.10	.10
"	24.	Sliding Gauge	"	...	.50	.85
"	25.	Stop Lever	"	...	.45	.45
"	26.	Thumb Lever	"	...	.20	.20
"	27.	Guide	"	.55	.55	.90
"	28.	Gib	"	.25	.25	.25
"	29.	Swinging Lever	"	...	1.25	1.35
"	30.	Bed and Back	"	1.45	1.45	1.60
"	31.	Thumb Screw	"	.10	.10	.10

Above prices are net and subject to change without notice.

STANLEY PATENT ADJUSTABLE IRON PLANES.



No. 1.	Smooth Plane,	$5\frac{1}{2}$	inches long,	$1\frac{1}{4}$	inch	cutter	.....	Each,	$1.02
" **2.**	" "	7	" "	$1\frac{3}{8}$	"	"	.....	"	1.25
" **3.**	" "	8	" "	$1\frac{3}{4}$	"	"	.....	"	1.35
" **4.**	" "	9	" "	2	"	"	.....	"	1.47
" **$4\frac{1}{2}$.**	" "	10	" "	$2\frac{3}{8}$	"	"	.....	"	1.70

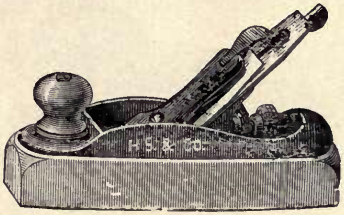


No. 5.	Jack Plane,	14	inches long,	2	inch	Cutter	.....	Each,	$1.70
" **$5\frac{1}{2}$.**	" "	15	" "	$2\frac{1}{4}$	"	"	.....	"	1.92
" **6.**	Fore "	18	" "	$2\frac{3}{8}$	"	"	.....	"	2.15
" **7.**	Jointer "	22	" "	$2\frac{3}{8}$	"	"	.....	"	2.48
" **8.**	" "	24	" "	$2\frac{3}{8}$	"	"	.....	"	2.93

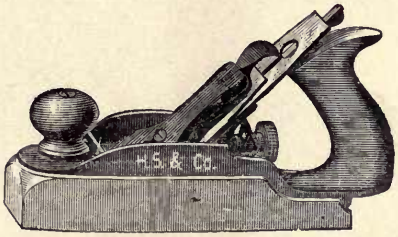
Nos. 4, 5, 6, 7 and **8** can be furnished with Corrugated Bottom at the same price as the regular.

Above prices are net and subject to change without notice.

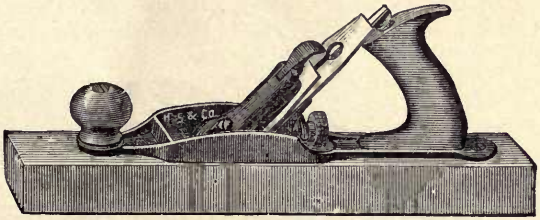
STANLEY PATENT WOOD PLANE.



No. 21.	Smooth Plane,	7	inches long,	$1\frac{3}{4}$	inch	Cutter	.....	Each,	$0.90
" 22.	" "	8	" "	$1\frac{3}{4}$	"	"	.....	"	.90
" 23.	" "	9	" "	$1\frac{3}{4}$	"	"	.....	"	.90
" 24.	" "	8	" "	2	"	"	.....	"	.90



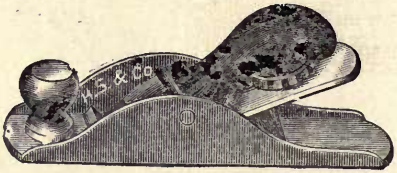
No. 35.	Smooth Plane,	9	inches long,	2	inch	Cutters	.....	Each,	$1.12
" 36.	" "	10	" "	$2\frac{3}{8}$	"	"	.....	"	1.25



No. 26.	Jack Plane,	15	inches long,	2	inch	Cutter	.....	Each,	$1,02
" 27.	" "	15	" "	$2\frac{1}{8}$	"	"	.....	"	1.12
" 28.	Fore "	18	" "	$2\frac{3}{8}$	"	"	.....	"	1.25
" 29.	" "	20	" "	$2\frac{3}{8}$	"	"	.....	"	1.35
" 30.	Jointer "	22	" "	$2\frac{3}{8}$	"	"	.....	"	1.35
" 31.	" "	24	" "	$2\frac{3}{8}$	"	"	.....	"	1.35
" 32.	" "	26	" "	$2\frac{5}{8}$	"	"	.....	"	1.47
" 33.	" "	28	" "	$2\frac{5}{8}$	"	"	.....	"	1.47
" 34.	" "	30	" "	$2\frac{5}{8}$	"	"	.....	"	1.58

Above prices are net and subject to change without notice.

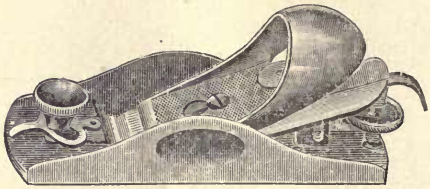
STANLEY IRON BLOCK PLANES.



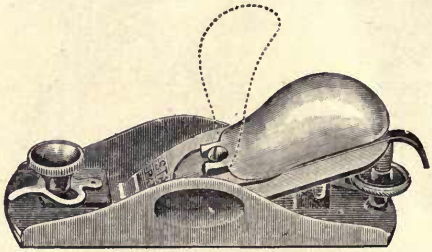
No. 110. 7½ inches long, 1¾ inch Cutter..... ..... Each, $0.27
" **120.** Adjustable, 7½ inches long, 1¾ inch Cutter .... " .40

ADJUSTABLE BLOCK PLANES.

These Block Planes are adjusted by a screw and lever movement, and the mouth can be opened wide or made close, as the nature of the work may require.



No. 9½. Japanned, Excelsior, 6 inches long, 1¾ inch Cutter..... Each, $0.68
" **15.** " " 7 " " 1¾ " " ..... " .72
" **16.** Nickel Plated, " 6 " " 1¾ " " ..... " .75
" **17.** " " " 7 " " 1¾ " " ..... " .80

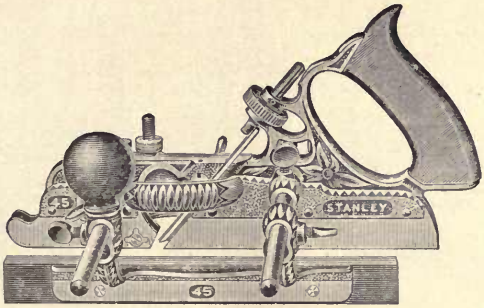


The knuckle-joint in the cap of this plane constitutes it a lever also, and the single movement of putting the cap in position will clamp the cutter firmly in its seat.

No. 18. Nickel Plated Knuckle-joint, 6 inches long, 1¾ inch Cutter. Each, $0.80
" **19.** " " " " 7 " " 1¾ " " " .84

Above prices are net and subject to change without notice.

STANLEY ADJUSTABLE BEADING, RABBET AND SLITTING PLANE.



This Plane embraces in a compact and practical form a Beading and Centre Beading Plane, Rabbet and Filletster Dado, Plow, Match Plane and a Superior Slitting Plane.

In each of its several forms this Plane will do perfect work, even in the hands of an ordinary mechanic—its simplicity of construction and adaptation of parts (as described in the directions which accompany each tool) being easily understood.

☞ Each Plane is accompanied by seven Beading Tools ($\frac{1}{8}$, 3-16, $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, and $\frac{1}{2}$ inch), ten Plow and Dado Bits ($\frac{1}{8}$, 3-16, $\frac{1}{4}$, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ and $\frac{7}{8}$ inch), a Slitting Tool, a Tonguing and a Sash Tool.

No. 45. Complete with tools mentioned above ..... Each, $5.40

HOLLOWS AND ROUNDS FOR No. 45 PLANE.

	No.	6	8	10	12
		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1 in. wide.
	Works,	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$ in. circle.
Price with Bits.....	Per Pair,	$0.95	.95	.95	.95

NOSING TOOL FOR No. 45 PLANE.

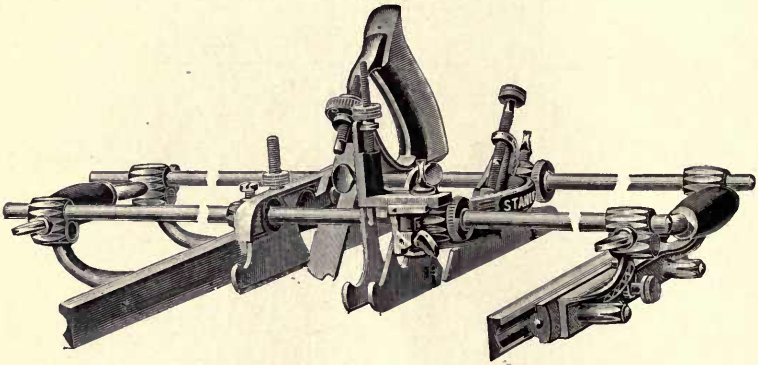
No. 5. $1\frac{1}{4}$ inch Cutter..... Each, $0.75

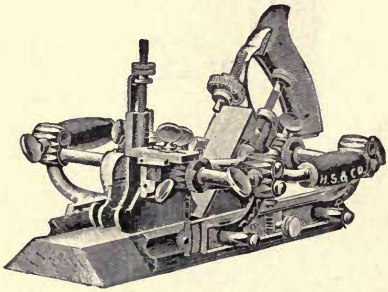
REEDING TOOLS FOR No. 45 PLANE.

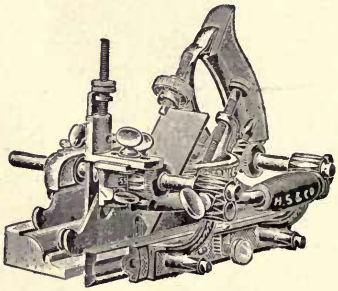
		2	3	4	5 Beads.
$\frac{1}{8}$, 3-16 or $\frac{1}{4}$ inch.....	Each,	$0.15	.23	.34	.38

Above prices are net and subject to change without notice.

STANLEY UNIVERSAL PLANE.







This Plane comprises a Plow, Dado, Rabbet, Beading, Reeding, Fluting, Round, Hollow, Sash, Filletster, Match, Slitting, Chamfer and General Moulding Plane in one tool, is easily adjusted, and can be used for a greater variety of work than any other Plane in the market. The directions which accompany each tool are readily understood.

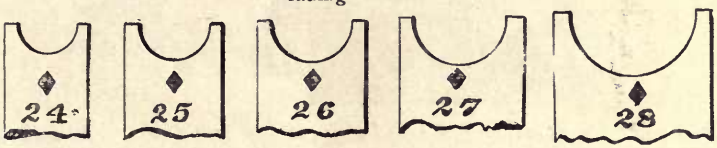
No. 55. Price complete, with 52 cutters, a few of which are shown an opposite page.....Each, $10.80

Above price is net and subject to change without notice.

CUTTERS FOR STANLEY UNIVERSAL PLANE, NO. 55.

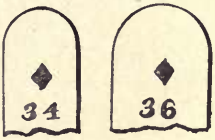
Plow, Dado and Rabbet Tools.

Beading Tools.

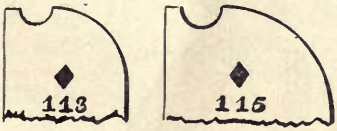


Rounds.

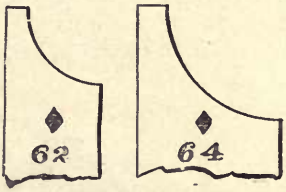
Fluting Tools.



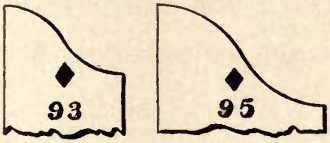
Quarter Rounds with Beads.



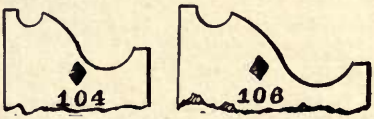
Quarter Hollows.



Roman Ogees.



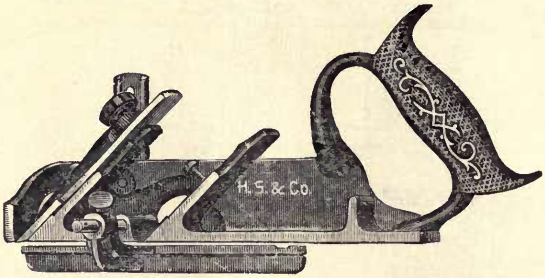
Grecian Ogees.



See preceding page for price on this plane.

STANLEY PATENT PLANES.

DUPLEX RABBET PLANE AND FILLETSTER.

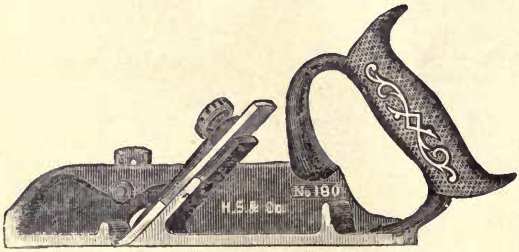


No. 78.* Iron Stock and Fence, 8½ inches long, 1½ inch Cutter....Each, $1.02

Remove the arm to which the fence is secured, and a Handled Rabbet Plane is had with two seats for the cutter, so that the tool can be used as a Bull-Nose Rabbet if required.

The arm to which the fence is secured can be screwed into either side of the stock, thus making a superior right or left hand Filletster, with adjustable spur and depth gauge.

PATENT IMPROVED RABBET.



No. 190.*	Iron Stock,	8	inches long,	1½	inch wide,	with spur	.....	Each,	$0.78
" **191.***	"	8	"	1¼	"	"	.....	"	.78
" **192.***	"	8	"	1	"	"	.....	"	.78

* These Rabbet Planes will lie perfectly flat on either side, and can be used with right or left hand equally well while planing into corners or up against perpendicular surfaces.

IRON SPOKESHAVES.

No. 51. Double Iron, 10 inch, $2\frac{1}{8}$ inch Cutter.....Per doz., $1.67 each, $0.17

No. 52. Double Iron, 10 inch, $2\frac{1}{8}$ inch Cutter.....Per doz., $1.67. Each. $0.17

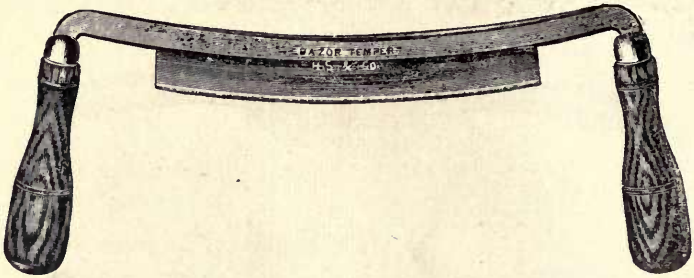
No. 53. Adjustable, 10 inch, $2\frac{1}{8}$ inch Cutter.... ...Per doz., $2.14. Each, $0.21

No. 54. Adjustable, 10 inch, $2\frac{1}{8}$ inch Cutter.....Per doz., $2.14. Each, $0.21

This Shave has a throat regulator which will present to the knife four faces, one flat, two oval or convex, and one concave. Either handle may be taken off to work in cramped places.

No. 2......Each, $0.90

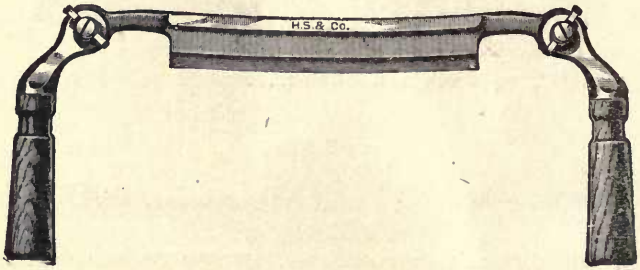
DRAWING KNIVES.



Carpenter's (Razor Blade).

		6	7	8	9	10	11	12 in.
White's	Each,	$0.71	.78	.85	.92	1.00	1.07	1.14

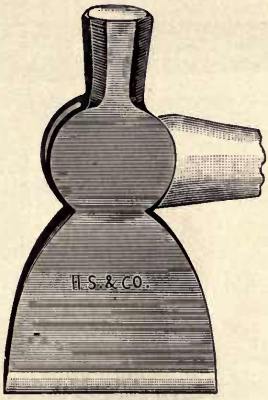
ADJUSTABLE FOLDING HANDLE DRAWING KNIVES.



Length of Blade. 6 inches	Each,	$1.50
" " " 7 "	"	1.65
" " " 8 "	"	1.70

Above prices are net and subject to change without notice.

SHINGLING HATCHETS.



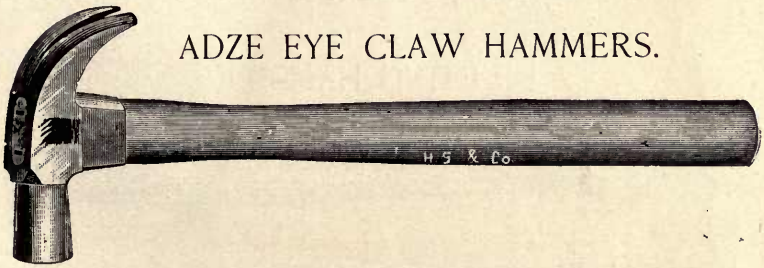
COLLINS.

No.	1	2	3
Cuts	3½	4	4½ in.
Per doz.,	$5.70	6.00	6.30
Each,	.57	.60	.63

HAMMONDS.

No.	1	1	3
Cuts	3½	3¾	4 in.
Per doz.,	$6.00	6.40	6.85
Each,	.60	.64	.68

ADZE EYE CLAW HAMMERS.



	No.	1	1½	2	3
	Weight,	20	16	13	7 oz.
Hammond's.....	Per doz.,	$5.95	5.65	5.25	4.95
	Each.	.60	.57	.53	.50

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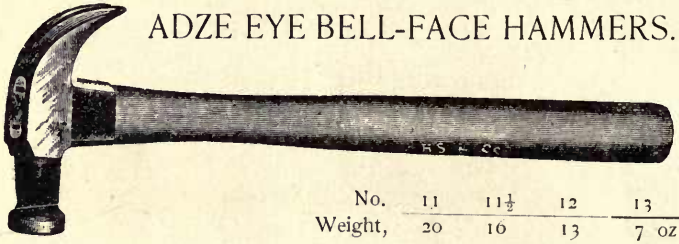
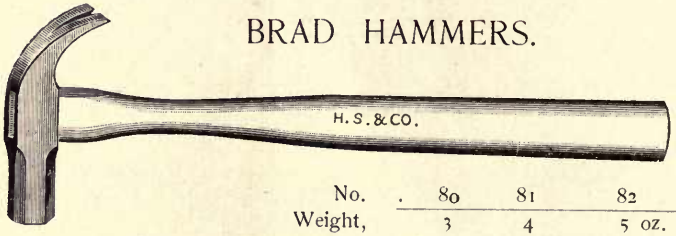


ADZE EYE BELL-FACE HAMMERS.

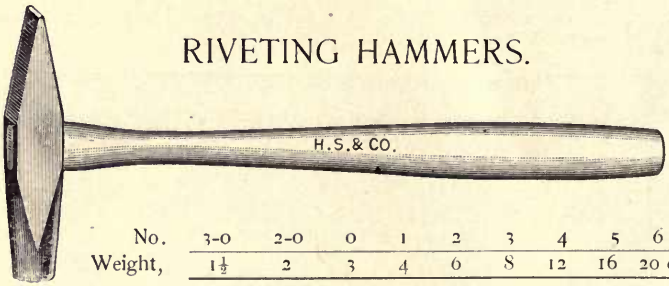
	No.	11	11½	12	13
	Weight,	20	16	13	7 oz.
Hammond's..... .. ..Per doz.,		$5.95	5.65	5.25	4.95
	Each.	.60	.57	.53	.50



BRAD HAMMERS.

	No.	80	81	82
	Weight,	3	4	5 oz.
Germantown.....Per doz.,		$3. 5	3.50	4.45
	Each,	.32	.35	.45

Germantown, Adze Eye, No. 77, 5 ounces.....Per doz., $4.25 Each, $0.53



RIVETING HAMMERS.

	No.	3-0	2-0	0	1	2	3	4	5	6
	Weight,	1½	2	3	4	6	8	12	16	20 oz.
H. S. & Co..Per doz.,		$3.00	3.00	3.00	3.00	3.75	4.50	5.25	6.00	6.75
	Each,	.30	.30	.30	.30	.38	.45	.53	.60	.68

Above prices are net and subject to change without notice.

ROUND MALLETS.

HICKORY.

No.	2-0	0	1	2	3	4	5
Diameter of Face,	4½	4	3½	3	2½	2¼	2 in.
Per doz.	$2.45	2.05	1.85	1.05	1.40	1.25	1.00
Each	.25	.21	.19	.17	.14	.13	.10

LIGNUM-VITAE.

No.	2-0	0	1	2	3	4	5
Diameter of Face,	4½	4	3½	3	2½	2¼	2 in.
Per doz.	$3.65	3.25	2.85	2.45	2.05	1.85	1.65
Each	.37	.33	.29	.25	.21	.19	.17

JEWELERS' MALLETS.

No.	6	7	8
Diameter of Face,	1¾	1½	1¼ in.
Lignum-vitæ ..... Per doz.,	$1.50	1.40	1.30
" ..... Each,	.15	.14	.13

Above prices are net and subject to change without notice.

FIRMER CHISELS.

HANDLED AND SHARPENED.

Best Quality Applewood Handles.

The 1 inch Chisel is $5\frac{1}{2}$ inches long from Bolster to Point.

Buck Bros., No. 2.

	1-16	$\frac{1}{8}$	3-16	$\frac{1}{4}$	5-16	$\frac{3}{8}$	7-16	$\frac{1}{2}$ in.
Per doz.,	$2.13	2.13	2.17	2.21	2.30	2.42	2.68	2.08.
Each,	..20	.20	.20	.20	.21	.22	.25	.25.

	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
Per doz.....	$2.94	3.15	3.49	3.65	4.76	5.70	6.80	7.99
Each.....	.27	.29	.32	.34	.44	.53	.63	.74

In Sets of 12 (containing $\frac{1}{8}$, 3-16, $\frac{1}{4}$, 5-16, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$. 1, $1\frac{1}{4}$, $1\frac{1}{2}$ in.) Per set, $3.23
" 12 (" $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, 2 ") " 4.08

SOCKET FIRMER CHISELS.

The 1 inch Chisel has $5\frac{1}{2}$ inch Blade.

Buck Bros., No. 35.

	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
Per doz...	$3.05	3.15	3.37	3.57	3.94	4.26	4.54	4.94	5.48	5.96	6.69	7.45
Each.....	.28	.29	.31	.33	.36	.38	.41	.45	.50	.54	.61	.68

In sets of 12 (containing $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, 2 in.).....Per set, $4.38

Above prices are net and subject to change without notice.

FIRMER GOUGES.

HANDLED AND SHARPENED.

The 1 inch Chisel is 5½ inches from Bolster to Point.

Buck Bros., No. 8, Outside Bevel.

	⅛	3-16	¼	5-16	⅜	7-16	½	⅝ in.
Per doz.	$2.68	2.72	2.81	2.93	3.06	3.27	3.27	3.49
Each	.27	.27	.28	.29	.31	.33	.33	.35

	¾	⅞	1	1¼	1½	1¾	2 in.
Per doz.	$3.78	4.16	4.34	5.70	6.80	8.03	9.52
Each	.38	.42	.43	.57	.68	.80	.95

In Sets of 12 (containing ⅛, 3-16, ¼, 5-16, ⅜, ½, ⅝, ¾, ⅞, 1, 1¼, 1½ in.) Per set, $3.90
" 12 (" ⅛, ¼, ⅜, ½, ⅝, ¾, ⅞, 1, 1¼, 1½, 1¾, 2 ") " " 4.95

Buck Bros., No. 10, Inside Bevel.

	⅛	3-16	¼	5-16	⅜	7-16	½	⅝ in.
Per doz.	$3.15	3.19	3.28	3.40	3.53	3.74	3.74	3.91
Each	.32	.32	.33	.34	.35	.37	.37	.39

	¾	⅞	1	1¼	1½	1¾	2 in.
Per doz.	$4.25	4.59	4.80	6.20	7.27	8.49	10.07
Each	.43	.46	.48	.62	.73	.85	1.01

SOCKET FIRMER GOUGES.

The 1 inch Gouge has 5½ inch Blade.

Buck Bros., No. 42, Outside Bevel.

	⅛	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2 in.
Per doz.	$4.15	4.50	4.82	5.04	5.22	5.76	6.30	6.75	7.56	8.28	9.23	10.26
Each	.42	.45	.48	.50	.52	.58	.63	.68	.76	.83	.92	1.03

In Sets of 12 (containing ⅛, ¼, ⅜, ½, ⅝, ¾, ⅞, 1, 1¼, 1½, 1¾, 2 inch) Per set, $6.50

Above prices are net and subject to change without notice.

LONG THIN PARING CHISELS.

The 1 inch Chisel is 8½ inches from Bolster to Point.

Buck Bros., No. 11.

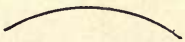
	1/8	3-16	1/4	5-16	3/8	7-16	1/2	5/8 in.
Per doz	$2.10	2.10	2.10	2.17	2.17	2.40	2.40	2.66
Each	.21	.21	.21	.22	.22	.24	.24	.27

	3/4	7/8	1	1¼	1⅜	1½	1¾	2 in.
Per doz	$3.00	3.23	3.94	5.36	5.78	6.45	7.61	9.38
Each	.30	.32	.39	.54	.58	.65	.76	.94

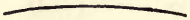
In Sets of 9 (containing 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1¼, 1½ inch) ..... Per set, $3.30
" 12 (" 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1¼, 1½, 1¾, 2 inch) .. 4.35

LONG THIN PARING GOUGES.

Regular Sweep.



Middle Sweep.



Flat Sweep.

The 1 inch Gouge is 8½ inches from Bolster to Point.

Buck Bros., No. 13.

	1/8	3-16	1/4	5-16	3/8	7-16	1/2	5/8 in.
Per doz	$3.49	3.49	3.53	3.60	3.60	3.82	3.82	4.05
Each	.35	.35	.35	.36	.36	.38	.38	.41

	3/4	7/8	1	1¼	1⅜	1½	1¾	2 in.
Per doz	$4.43	4.61	5.36	7.00	7.47	8.18	9.86	11.70
Each	.44	.46	.54	.70	.75	.82	1.00	1.17

Above prices are net and subject to change without notice.

TURNING CHISELS.

HANDLED AND SHARPENED.

The 1 inch Chisel has about 6½ inch Blade.

Buck Bros., No. 19.

	¼	⅜	½	⅝	¾	1	1¼	1½ in.
Per doz.	$3.60	3.82	4.25	4.59	5.10	6.46	7.44	9.15
Each	.36	.38	.43	.46	.51	.65	.74	.92

Buck Bros., No. 19.

With Square, Round or Spear Points.

	¼	⅜	½	⅝	¾	1	1¼	1½ in.
Per doz.	$4.25	4.46	4.89	5.23	5.70	7.10	8.12	9.75
Each	.43	.45	.49	.52	.57	.71	.81	.98

TURNING GOUGES.

HANDLED AND SHARPENED.

The 1 inch Gouge has 6½ inch Blade.

Buck Bros., No. 20.

	¼	⅜	½	⅝	¾	1	1¼	1½ in.
Per doz.	$4.68	4.80	5.30	5.65	6.38	8.03	9.65	12.00
Each	.46	.48	.53	.57	.64	.80	.97	1.20

Above prices are net and subject to change without notice.

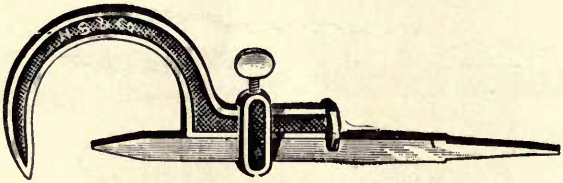
WOOD TURNERS' PARTING TOOLS.

The ½ inch Tool has a 6½ inch Blade.

Buck Bros., No. 18.

	½	⅝	¾ in.
Per doz	$3.86	4.25	4.68
Each	.39	.43	.47

WOOD TURNERS' SIZERS.



	2	2½	3	3½	4½ in.
Light, with Handle.....Each,	$1.00	1.00	1.00	..	..
Heavy, without Handle..... "	..	1.25	..	1.25	1.25
Buck Bros. No. 25 without Handle "	..	2.70	..	..	..
Hustler Combination " " "	..	..	2.50	..	..

TURNING TOOL HANDLES.

No.	1	2	3	4	5	6
Length,	8½	9	9¼	9½	10¼	10¼ in.
Diameter,	1 1-16	1 3-16	1¼	1 5-16	1 7-16	1⅝ in.
Applewood, Per gro	$6.65	7.00	7.35	7.70	8.00	8.35
Per doz	.67	.70	.75	.77	.80	.84
Each	.07	.07	.08	.08	.08	.09

Above prices are net and subject to change without notice.

CHISEL HANDLES.

FOR TANGED CHISELS.

Apple, Heavy Brass Tube Ferrule, Assorted.

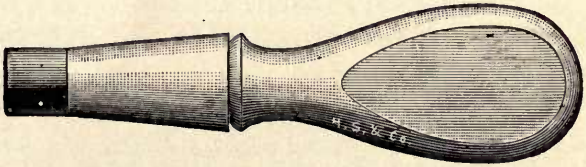
Per gro	$5.25
Per doz	.50
Each	.05

FILE HANDLES.

Soft wood (Bass), Assorted.

Per gro	$1.47
Per doz	.15

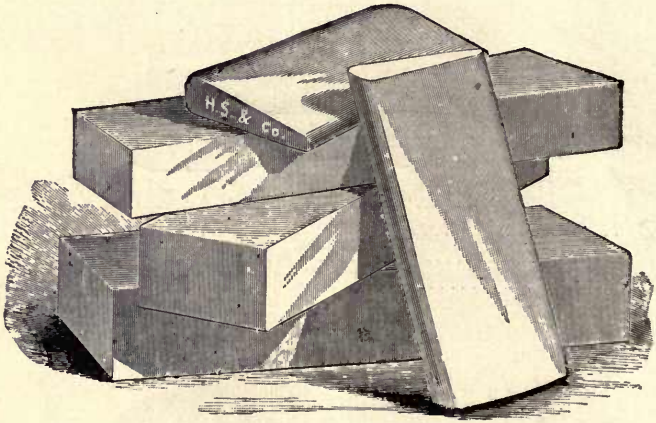
SCREW-DRIVER HANDLES.



		For 3	4	6	8	10	12 in. Blade.
Applewood.	Per doz	$0.77	.77	.87	.96	1.30	1.30
	Each	.08	.08	.09	.10	.13	.13

Above prices are net and subject to change without notice.

OIL STONES.



ARKANSAS.

UNMOUNTED			IN CHERRY CASES		
6 x 1¾ x ¾ inch	Regular	Each, $2.65	6 x 1¾ inch	Regular	Each, $1.85
6 x 1¾ x ¾ "	Soft	" 1.00	6 x 1⅞ "	Soft	" 1.10
8 x 2 x 1⅛ "	Regular	" 4.90	8 x 2 "	Regular	" 2.45
8 x 2 x 1⅛ "	Soft	" 2.00	8 x 2 "	Soft	" 1.45

WASHITA.

Rosy Red.

UNMOUNTED		IN CHERRY CASES		
6 x 1⅛ x ¾ inch	Each, $0.35	6 x 1⅛ inch	Each,	$0.70
8 x 2 x 1⅛ "	" .65	8 x 2 "	"	.85

Our Rosy Red Washita Stones are warranted to have a fine even grit and to be free from hard or soft spots.

Lily White.

Best, extra fine grit, 8 x 2 x 1⅛ inch, Each, $0.75 | Regular, 8 x 2 x 1 inch.....Each, $0.50

INDIA.

India Stones are even and clear grained throughout, have remarkable cutting qualities and are adaptable to all required shapes. A composition stone perfect in make up and in all good working points.

MEDIUM			FINE		
No. 0.	8 x 2 x 1 inch	Each, $1.00	No. 0.	8 x 2 x 1 inch	Each, $1.50
" 1½.	7 x 2 x 1 "	" .75	" 24.	4½ x ½ x ⅜ "	" .60
" 2.	6 x 1⅝ x ¾ "	" .50	" 29.	6 x 2 x 1 "	" .90
" 3.	4 x 1 x ½ "	" .30			
" 24.	4½ x 1½ x ⅜ "	" .40			
" 29.	6 x 2 x 1 "	" .60			

Above prices are net and subject to change without notice.

OIL STONES.

ROUND EDGE SLIPS.

ARKANSAS (Regular).

No. 1. 3½ x 1 x 3-16 to 1-16 in...Each, $0.32
" 2. 3½ x 1⅝ x ¼ to 3-32 "... " .57
" 3. 3½ x 1½ x 5-16 to ⅛ "... " .85

No. 4. 4 x 2 x 7-16 to 3-16 in.....Each $0.97
" 5. 4½ x 2 x 9-16 to ¼ "..... " 1.25

SOFT ARKANSAS.

No. 6. 3½ x 1 x 3-16 to 1-16 in....Each, $0.16
" 7. 3½ x 1⅝ x ¼ to 3-32 ".... " .27
" 8. 3½ x 1½ x 5-16 to ⅛ ".... " .36

No. 9. 4 x 2 x 7-16 to 3-16 in....Each, $0.40
" 10. 4½ x 2 x 9-16 to ¼ ".... " .68

ROSY RED WASHITA.

No. 11. 3½ x 1½ x 5-16 to ⅛ in.....Each, $0.14
" 12. 4 x 2 x 7-16 to 3-16 in... " .15

No. 13. 4½ x 2 x 9-16 to ¼ in.....Each, $0.20
" 14. 5 x 2½ x ¾ to 5-16 "..... " .50

INDIA.

MEDIUM

No. 13. 4½ x 1⅝ x ½ to 3-16 in...Each, $0.30
" 14. 4½ x 1¾ x ⅝ to ⅛ "... " .30
" 15. 4½ x 1⅝ x ¼ to 1-16 "... " .30
" 20. 4 x 1 x 7-16 to 3-16 "... " .30
" 22. 4½ x 2½ x ⅝ to 5-16 "... " .40

FINE

No. 13. 4½ x 1⅝ x ½ to 3-16 in.....Each, $0.45
" 14. 4½ x 1⅝ x ⅝ to ⅛ "..... " .45
" 15. 4½ x 1⅝ x ¼ to 1-16 "..... " .45
" 20. 4 x 1 x 7-16 to 3-16 in.. " .45
" *21. 6 x 2 x 1 x ⅝ x 3-16 ".. " .50
" 22. 4½ x 2½ x ⅝ to 5-16 ".. " .60

* No 21 is a special gouge slip with concave and convex surfaces, and will fit any size gouge.

PENKNIFE PIECES.

No 16. Arkansas, 3½ x ¾ x ⅜ in.....Each, $0.35
" 17. " 4 x 1 x ½ "..... " .55
" 18. " 5 x 1 x ½ "..... " .70

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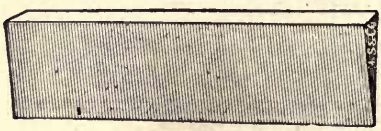
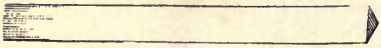
OIL STONES.



Knife Blades.

Square Files.



Triangular Files.

Points.

ARKANSAS.

No. 19.	Knife Blades	4 inches long		Each,	$0.43
" 20.	Triangular Files,	$4\frac{1}{4}$ "	"	"	.36
" 21.	Square "	4 "	"	"	.29
" 22.	Points, "	$2\frac{3}{4}$ "	"	"	.29

INDIA.

MEDIUM

No. 5.	Square,	4 x $\frac{3}{8}$ x $\frac{3}{8}$ in.	Each,	$0.30
" 6.	"	4 x $\frac{1}{4}$ x $\frac{1}{4}$ "	"	.30
" 7.	Triangle,	4 x $\frac{1}{2}$ x $\frac{1}{2}$ "	"	.35
" 8.	"	4 x $\frac{3}{8}$ x $\frac{3}{8}$ "	"	.35
" 9.	"	4 x $\frac{1}{2}$ x $\frac{1}{2}$ "	"	.35
" 11.	Round,	4 x $\frac{3}{8}$ "	"	.40
" 12.	"	4 x $\frac{1}{4}$ "	"	.40
" 26.	Diamond	4 x 9-16 x 3-16.	"	.50
" 27.	Points.	3 x 5-16 in.	"	.50

FINE

No. 5.	Square,	4 x $\frac{3}{8}$ x $\frac{3}{8}$ in.	Each,	$0.45
" 6.	"	4 x $\frac{1}{4}$ x $\frac{1}{4}$ "	"	.45
" 7.	Triangle,	4 x $\frac{1}{2}$ x $\frac{1}{2}$ "	"	.50
" 8.	"	4 x $\frac{3}{8}$ x $\frac{3}{8}$ "	"	.50
" 9.	"	4 x $\frac{1}{2}$ x $\frac{1}{2}$ "	"	.50
" 11.	Round,	4 x $\frac{3}{8}$ "	"	.60
" 12.	"	4 x $\frac{1}{4}$ "	"	.60
" 27.	Points,	3 x 5-16 "	"	.75

CARVING TOOL SET.

Arkansas, in paper box.....Per set of four, $0.67

SPECIAL CARVING TOOL SLIP.

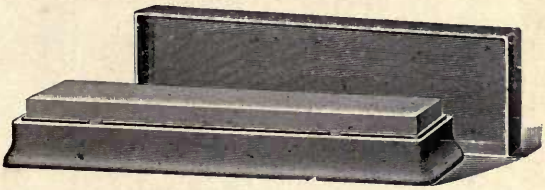
No. 15. Arkansas, $2\frac{3}{8}$ x $\frac{7}{8}$ in.....Each, $0.20

MISCELLANEOUS STONES.

Queer Creek Stones,	8 x 2 x $1\frac{1}{2}$	inches	Each,	$0.40
Hindostan "	8 x 2 x $2\frac{1}{8}$	"	"	.15
Sand "	8 x 2 x $1\frac{1}{2}$	"	"	.10
Emery "	8 x 2 x 1	" (Nos. 60, 80, 100, 120, and 150)	"	.30

Above prices are net and subject to change without notice.

OIL STONE BOXES.



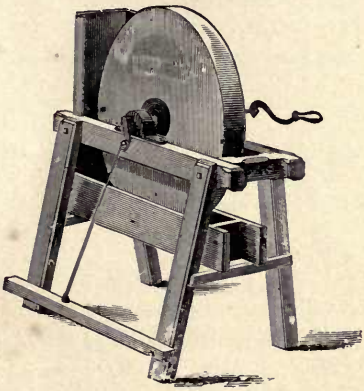
IRON BOXES FOR OIL STONES.

No. 0.	takes stone	8 x 2 x 1	inch	Each,	$0.25
" 2.	" "	6 x 1⅝ x ¾	"	"	.25
" 29.	" "	6 x 2 x 1	"	"	.25

The above boxes are fitted with four cork feet, which will to a great extent prevent them from sliding on bench while in use. The stone rests on a piece of felt in bottom of box, which, absorbing a quantity of oil, keeps the stone moist. When the top gets dry reverse the stone.

GRINDSTONES.

WOODEN FRAME.

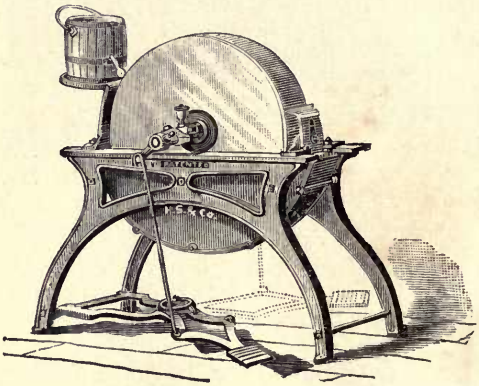


No.	1	2	3
Size of Stone,	24	22	18 in.
Each	$7.00	6.25	5.50

Above prices are net and subject to change without notice.

GRINDSTONES.

IRON FRAME.



These grindstones have extra heavy steel arbors, babbit metal journal boxes, and heavy flanges and nuts. The drip from the tool-rest drains into the trough. The foot-power frame has swivel treadle for right or left foot.

No.		With Stone.	Without Stone.
10.	Frame with Pulley. Stone, 24 x 2½ inches....	Each, $12.60	Each, $10.80
10.	" " Treadle. " 24 x 2½ "	" 12.60	" 10.80
10.	" " " and Pulley. Stone 24 x 2½ in.	" 13.95	" 12.15
11.	" " Pulley. Stone 24 x 3 inches....	" 13.50	" 11.70
12.	" " " " 27 x 3½ "	" 19.80	" 16.65
13.	" " " " 30 x 4 "	" 23.40	" 19.80
14.	" " " " 36 x 5 to 6 inches	" 36.00	" 31.50

Shield, Pan and Bucket with Faucet, for Nos. 10 and 11.....$0.90
" " " " " for Nos. 12, 13 and 14..... 1.80
Hand Crank, for Nos. 10 or 11..... .45

WITHOUT FRAMES.

Per lb.....$0.02½

Above prices are net and subject to change without notice.

AUGER BITS.

RUSSELL JENNINGS GENUINE.

	3-	3½-	4-	4½-	5-	5½-	6-	6½-16in
Per doz	$2.49	2.49	2.20	2.49	2.49	2.78	2.78	3.22
Each	.23	.23	.20	.23	.23	.20	.26	.29

	7-	7½-	8-	8½-	9-	10-	11-	12-16 in
Per doz	$3.22	3.51	3.51	3.81	3.81	4.10	4.47	4.83
Each	.29	.32	.32	.35	.35	.37	.41	.44

	13-	14-	15-	16-	17-	18-	19-	20-16 in.
Per doz	$5.27	5.71	6.15	6.59	7.02	7.46	7.90	8.34
Each	.48	.52	.57	.60	.63	.68	.72	.75

	21-	22-	23-	24-	26-	28-	30-	32-16 in.
Per doz	$8.78	9.22	9.66	10.25	10.97	11.85	12.72	13.61
Each	.80	.83	.87	.92	1.00	1.08	1.15	1.23

WRIGHT'S BLUED.

	3-	4-	5-	6-	7-	8-	9-	10-	11-16 in.
Per doz	$1.90	1.67	1.67	1.80	1.80	1.90	2.03	2.14	2.38
Each	.19	.17	.17	.18	.18	.19	.20	.21	.24

	12-	13-	14-	15-	16-	18-	20-16 in.
Per doz	$2.62	2.85	3.10	3.45	3.80	4.75	5.23
Each	.26	.29	.31	.35	.38	.48	.52

SHORT AUGER OR DOWEL BITS.

RUSSELL JENNINGS GENUINE.

	3-	3½-	4-	4½-	5-	5½-	6-16 in.
Per doz	$2.49	2.49	2.20	2.49	2.49	2.78	2.78
Each	.23	.23	.22	.23	.23	.26	.26

	6½-	7-	7½-	8-	8½-	9-	10-16 in.
Per doz	$3.22	3.22	3.51	3.51	3.81	3.81	4.10
Each	.29	.29	.32	.32	.35	.35	.37

	11-	12-	13-	14-	15-	16-16 in.
Per doz	$4.47	4.83	5.27	5.71	6.15	6.59
Each	.41	.44	.48	.52	.57	.60

Above prices are net and subject to change without notice.

EXPANSIVE BITS.

CLARK'S.

Small, Boring from ½ to 1½ inch.....Each, $0.80
Large, Boring from ⅞ to 3 " ..... " 1.15

Extra Cutters.

Small, ½ to ⅞ inch..... ...Each, $0.14
" ⅞ to 1½ " ..... " .18
Large ⅞ to 1¾ inch.....Each, $0.25
" 1⅜ to 3 " ..... " .30
" 2¼ to 4 " ..... " .43

STEERS.'

Showing Cutter in Position.

Showing Bit without Cutter.

Small, Boring from ⅝ to 1¾ inch..... ....Each, $1.05
Large, Boring from ⅞ to 3 " ..... " 1.55

Extra Cutters.

Small, ⅝ to 1⅛ inch.....Each, $0.22
" 1⅛ to 1¾ " ..... " .27
Large, ⅞ to 1⅝ inch.....Each, $0.36
" 1⅝ to 3 " ..... " .43
" 3 to 4 " ..... " .85

Above prices are net and subject to change without notice.

BITS.

TWIST BITS FOR WOOD.

These Bits are intended tor wood, but are warranted to cut through a nail without injury to the bit.

	2-	3-	4-	5-	6-	7-	8-	9-	10-	11-32 in.
Per doz ...	$0.92	0.92	0.92	1.00	1.14	1.43	1.70	2.05	2.05	2.28
Each.....	.09	.09	.09	.10	.11	.14	.17	.21	.21	.23

	12-	13-	14-	15-	16-	17-	18-	19-	20-32 in.
Per doz....	$2.28	2.57	2.57	2.85	2.85	3.13	3.13	3.40	3.40
Each.....	.23	.26	.26	.29	.29	.31	.31	.34	.34

BEST QUALITY GERMAN GIMLET.

	2-	3-	4-	5	6-	7-	8-	9-	10	11	12-32 in.
Per doz....	$0.80	.80	.80	.80	.80	.80	.80	.80	1.00	1.10	1.20
Each.....	.08	.08	.08	.08	.08	.08	.08	.08	.10	11.	.12
Per doz....	..	..	..	..	2.30	2.30	2.30	.	2.50	..	2.60
Long (12 in.) Each.....	..	..	..	..	.23	.23	.23	..	.25	..	.26

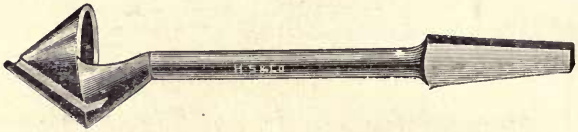
CAST STEEL CENTER.

		3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16
Bright.	Per doz..	$1.06	1.06	1.06	1.06	1.13	1.13	1.20	1.20	1.25
"	Each.....	.11	.11	.11	.11	.11	.11	.12	.12	.13

		3/4	13/16	7/8	91/1	1	1 1/8	1 1/4	1 3/8	1 1/2 in.
Bright.	Per doz..	$1.25	1.30	1.30	1.36	1.36	1.66	1.89	2.13	2.35
"	Each.....	.13	.13	.13	.14	.14	.17	.19	.21	.24

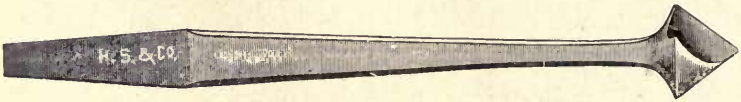
Above prices are net and subject to change without notice.

COUNTERSINKS FOR WOOD.



No. 18. Wheeler's Patent $\frac{7}{8}$ inch, without gauge. Per doz., $1.80 Each, $0.18
No. 20. " " $\frac{7}{8}$ " with gauge. " " 2.70 " .27

		$\frac{5}{8}$	$\frac{3}{4}$ in.
Humphrey's Drop Forged Steel.....	Per doz.,	$1.30	1.35
	Each,	.13	.14

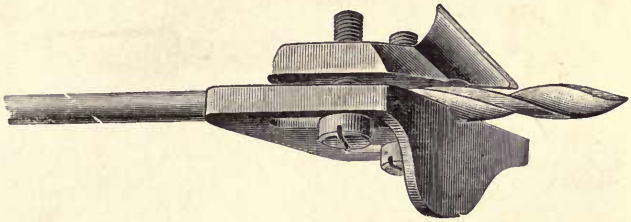


		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$ in.
B. & F. Cast Steel, Snail.....	Per doz.,	$1.20	1.30	1.85
	Each,	.12	.13	.19

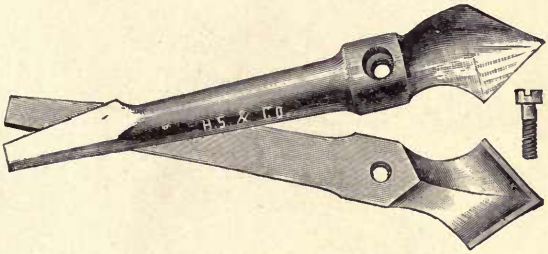
		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1 in.
B. & F. Cast Steel, Rose, can also be used tor Brass or Iron.....	Per doz.,	$1.26	1.40	1.85	2.80
	Each,	.13	.14	.19	.28
Buck Bros., Extra Quality Cast Steel, Rose, can also be used for Brass or Iron.....	Per doz.,	$2.55	2.55	3.40	..
	Each,	.26	.26	.34	..

Above prices are net and subject to change without notice.

COUNTERSINKS FOR WOOD.



Smith's Adjustable $\frac{3}{4}$ inch with depth gauge, will hold bits up to $\frac{3}{8}$ inch.
Without bits.....Each, $0.30

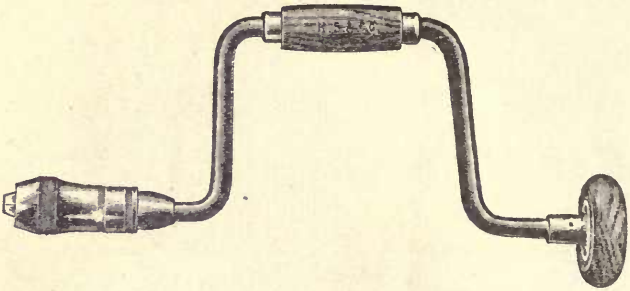


Clark's Double Cut, $\frac{7}{8}$ inch.

Without bits.....Per doz., $3.20 Each, $0.32
With two bits..... " " 7.20 " .72

Above prices are net and subject to change without notice.

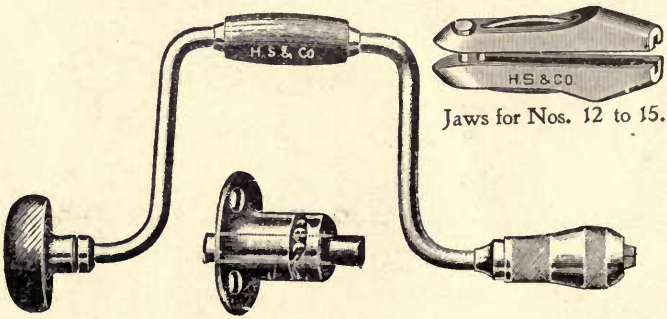
GOODELL'S IMPROVED BRACES.



Forged Steel Sweep and Jaws, Nickel-plated, Cocobola Handle and Lignum-vitæ Head, Ball Bearing Head and Sleeves.

No.	1	2	3
Sweep	12	10	8 in.
Each	$1.25	1.13	1.00

BARBER'S BRACES.



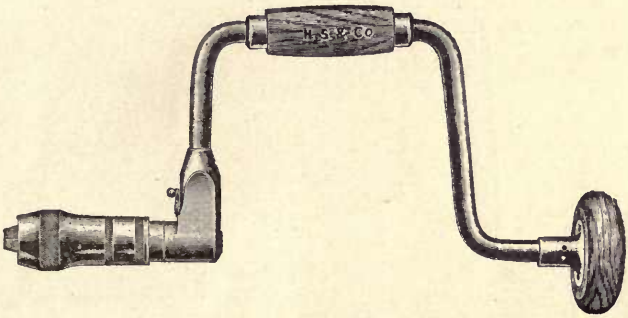
Jaws for Nos. 12 to 15.

Nickel-plated Rolled Steel Sweep, Rosewood handle and Lignum-vitæ Head with Ball Bearings.

No.	12	13	14	15
Sweep	10	8	6	4 in.
Each	$1.13	1.00	.88	.84

Above prices are net and subject to change without notice.

GOODELL'S IMPROVED RATCHET BRACES.

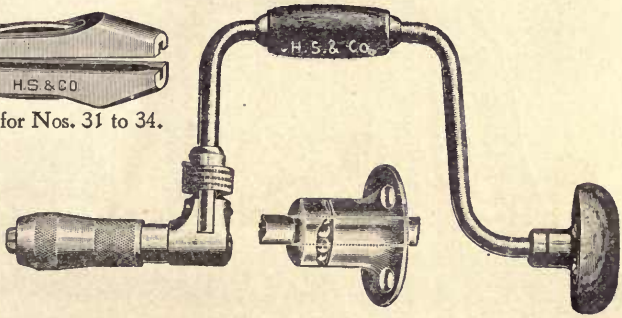


Nickel-plated, Forged Steel Sweep and Jaws, Cocobola Handle and Lignum-vitæ Head. The head, sleeves and ratchet device on chucks have Ball Bearings.

No.	11	12	13
Sweep,	12	10	8 in.
Each.....	$1.75	1.65	1.55

BARBER'S RATCHET BRACES.

Jaws for Nos. 31 to 34.

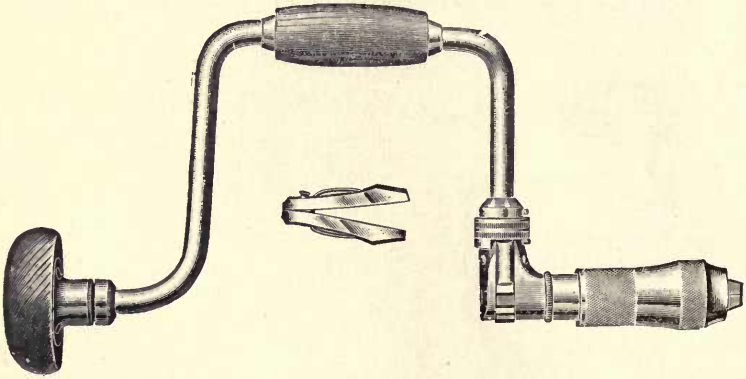


Nickel-plated Roller Steel Sweep, Rosewood Handle and Lignum-vitæ Head with Ball Bearings.

No.	31	32	33	34
Sweep,	12	10	8	6 in.
Each.....	$1.63	1.50	1.35	1.25

Above prices are net and subject to change without notice.

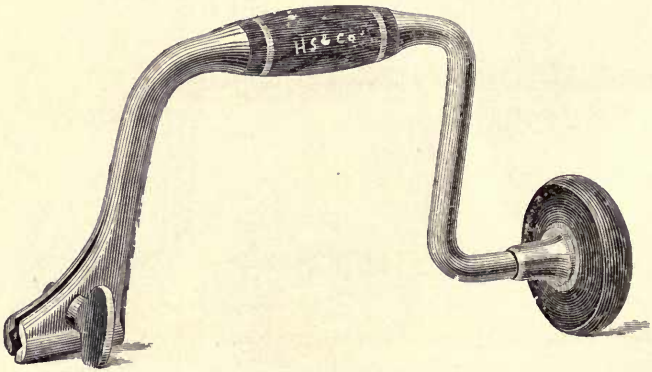
BARBER'S BRACES.



Nickeled Steel Sweep, Head and Handle stained in imitation of Cocobola.

No. 222.	Plain,	10 inch sweep		Each,	$0.50
" 223.	"	8 "	"	"	45
" 322.	Ratchet,	10 "	"	"	95
" 323.	"	8 "	"	"	90

SPOFFORD'S PATENT BRACES.



Nickel plated Steel Sweep. Rosewood Heads and Handles.

No.	107	108	110	112
Sweep,	7	8	10	12 in.
Each	$0.85	.95	1.10	1.20

Above prices are net and subject to change without notice.

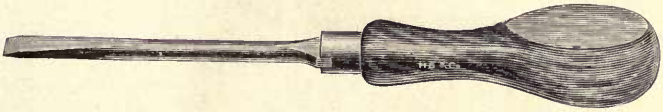
SCREW-DRIVERS.

CHAMPION.

The blades of the Champion Screw-drivers are by a peculiar process shrunk into malleable iron bolsters which are supported by heavy ferrules while the tangs (which form part of the bolsters) enter and pass nearly through the handles. **Every blade is tested to split a screw head.** The handles have a rosewood finish and are fluted to afford the best possible grip.

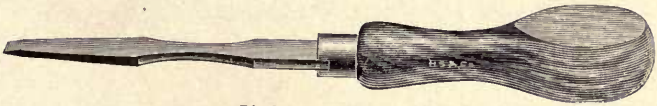
	Blades,	2½	3	4	5	6 in.
Regular..... ...	Per doz.,	$1.62	1.89	2.45	2.70	3.42
	Each,	.16	.20	.25	.27	.34
	Blades,	7	8	9	10	12 in.
Regular.....	Per doz.,	$3.78	4.32	4.86	5.40	6.48
	Each,	.38	.43	.49	.54	.65
	Blades,	3½	4½	5½		6½ in.
Slim.....	Per doz.,	$1.90	2.43	2.97		3.50
	Each,	.19	.24	.30		.35

ROUND BLADE.



	Blades,	2	3	4	5	6	7	8	9	10 in.
B. & F. Applewood Handle,	Per doz.	$1.60	1.60	1.90	2.20	2.60	3.20	3.70	4.20	5.10
	Each,	.16	.16	.19	.22	.26	.32	.37	.42	.50

FLAT BLADE.

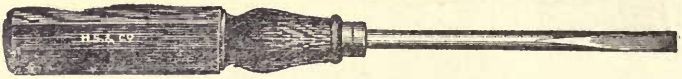


	Blades,	2	3	4	5	6	7	8	9	10 in.
B. & F. Applewood Handle,	Per doz.	$1.60	1.60	1.90	2.20	2.60	3.20	3.70	4.20	5.10
	Each,	.16	.16	.19	.22	.26	.32	.37	.42	.50

Above prices are net and subject to change without notice.

SCREW-DRIVERS.

HAMMACHER, SCHLEMMER & CO.'S



With Octagon Rosewood Handles, For Light Work.

Blades,	2	3	4	5	6	7	8	9	10	11	12 in
No. 77 Regular											
Per doz.....	$2.05	2.15	2.70	3.15	3.70	3.90	4.20	4.50	4.95	5.65	6.15
Each.....	.20	.22	.27	.32	.37	.39	.42	.45	.50	.57	.62
No. 77 A. Slim											
Per doz.....	$2.05	2.15	2.70	3.15	3.70	3.90	4.20	4.50	4.95	....	....
Each.....	.20	.22	.27	.32	.37	.39	.42	.45	.50	....	....

SCREW-DRIVER BITS.

		$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$
Flat Blade, Cast Steel..	Per doz.	$1.00	1.00	1.00	1.00	1.00	1.50
	Each	.10	.10	.10	.10	.10	.15

Extra Quality, Round Blade, 4 inches Long.	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$ in.
Per doz.,	$1.80	1.80	1.80	2.00
Each,	.18	.18	.18	.20

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SQUARES.

TWO FEET.

Steel, Polished.

No.	Width.	Length of Tongue.	Graduations.	Per Doz.	Each.
2	2 in.	18 in.	1-16, 1-12, $\frac{1}{8}$ and $\frac{1}{4}$ in., with Brace measure, 8 square scale and Essex's new board measure, giving feet and inches in full	$10.80	$1.08
2½	2 "	16 "	Framing, 1-12 in. on outsi le edge, $\frac{1}{8}$ in. elsewhere	10.08	1.00
4	2 "	16 "	1-12, $\frac{1}{8}$ and $\frac{1}{4}$ in., with Brace measure and Essex's new board measure, giving feet and inches in full	9.54	.95
6	2 "	16 "	$\frac{1}{8}$, $\frac{1}{4}$ and $\frac{1}{2}$ in.. with Brace measure and Essex's new board measure, giving feet and inches in full	8.82	.88
8	1½"	16 "	1-12, $\frac{1}{8}$ and $\frac{1}{4}$ in	8.64	.86

Steel, Nickle-plated.

No.	Width.	Length of Tongue.	Graduations.	Per Doz.	Each.
200	2 in.	16 in.	1-32, 1-16, 1-12, 1-10 and $\frac{1}{8}$ in.. with Brace measure, 8 square scale and Essex's new board measure, giving feet and inches in full	$18.00	$1.80
101	2 "	16 or 18 in.	1-16, 1-12 and $\frac{1}{8}$ in., with Brace measure, 8 square scale and Essex's new board measure, giving feet and inches in full	15.12	1.50
103	2 "	16 in.	1-16, 1-12 and $\frac{1}{4}$ in.. with Brace measure, and Essex's new board measure, giving feet and inches in full	12.60	1.26
105	2 "	16 "	1-12, $\frac{1}{8}$, $\frac{1}{4}$ and $\frac{1}{2}$ in., with Brace measure, and Essex's new board measure, giving feet and inches in full	11.83	1.18
108	1½"	16 "	1-12, $\frac{1}{8}$ and $\frac{1}{4}$ in	11.34	1.13

Iron, Bright.

No.	Width	Length of Tongue.	Graduations.	Per Doz.	Each.
22	1½ in.	16 in.	$\frac{1}{8}$ in. on both sides	$3 96	$0.40

ONE FOOT.

Steel, Polished.

No.	Width.	Length of Tongue.	Graduations.	Per Doz.	Each.
10	1½ in.	8 in.	1-12, $\frac{1}{8}$ and $\frac{1}{4}$ in	$7.20	$0.72

Steel, Nickle-plated.

No.	Width.	Length of Tongue.	Graduations.	Per Doz.	Each.
110	1½ in.	8 in.	1-12, $\frac{1}{8}$ and $\frac{1}{4}$ in	$9.36	$0.94

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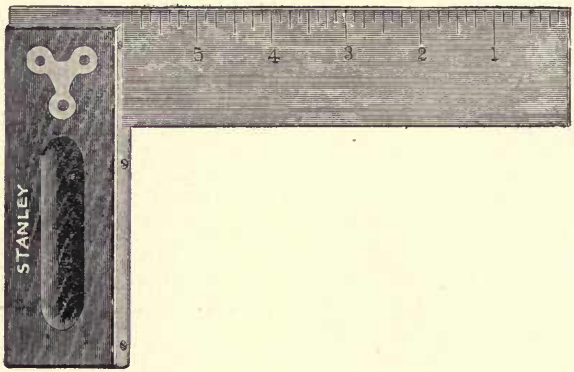
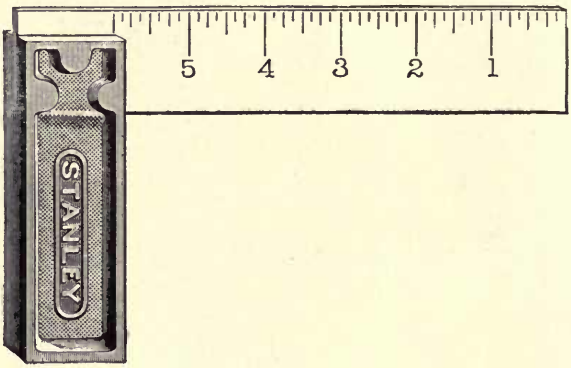
TRY SQUARES.



No. 20. Rosewood Stock, Brass Faced,

Graduated Tempered		3	4½	6	7½	9	10	12 in.
Steel Blade	Per doz.,	$1.15	1.43	1.90	2.20	2.47	2.75	3.25
	Each,	.12	.14	.19	.22	.25	.28	.33

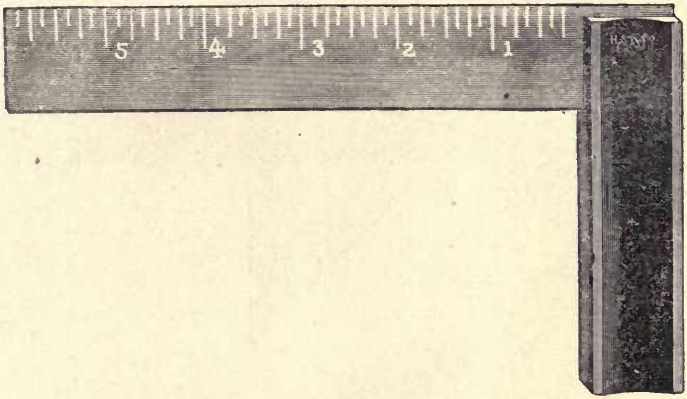


No. 12. Nickel-plated, Iron Stock, Graduated

Steel Blade, square inside and outside..		4	6	8	10	12 in
	Per doz.,	$1.85	2.35	3.00	3.65	4.65
	Each,	.18	.24	.30	.37	.47

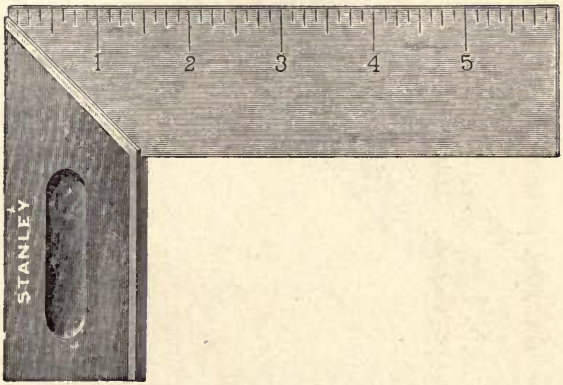
Above prices are net and subject to change without notice.

TRY SQUARES.



No. 4½. Iron Stock, square inside		3	4	6	8	10	12 in.
and outside	Per doz.,	$1.72	1 80	2.20	2.58	3.10	3.90
	Each,	.17	.18	.22	.26	.31	.39

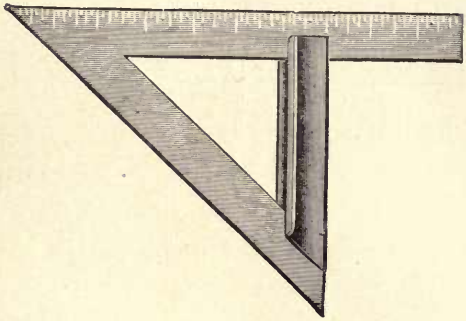
COMBINED TRY AND MITRE SQUARES.



No. 2. Rosewood Stock, Brass Faced, Graduated		4½	6	7½	9	12 in.
Steel Blades, square inside and outside . .	Per doz.,	$2.57	2.85	3.42	4.00	5.12
	Each,	.26	.28	.34	.40	.50

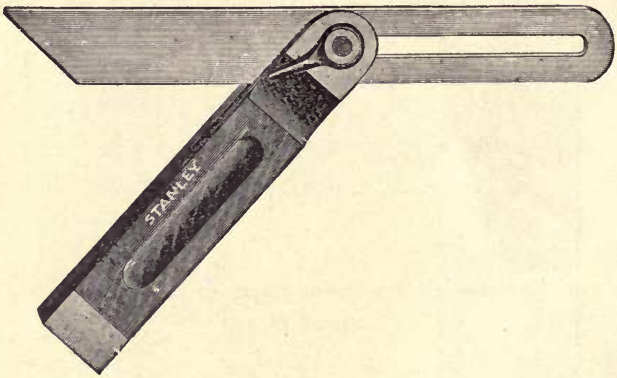
Above prices are net and subject to change without notice.

FOX COMBINATION SQUARE AND MITRE.



All Steel, 10 inch Blade ....Per doz.. $7.35 Each, $0.73

SLIDING T BEVELS.



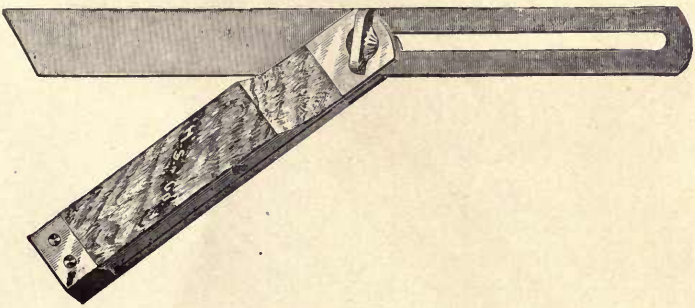
No. 25. Rosewood Stock, with Flush Lever	6	8	10	12 in.
and Tempered Steel Blade.....Per doz.,	$2.10	2.28	2.48	2.65
Each,	.21	.23	.25	.27

Above prices are net and subject to change without notice.

SLIDING T BEVELS.

Eagle Iron Stocks, Tempered Steel Blade, Fully Nickel-plated.

	6	9	12 in.
Per doz	3.00	4.20	5.40
Each	.30	.42	.54

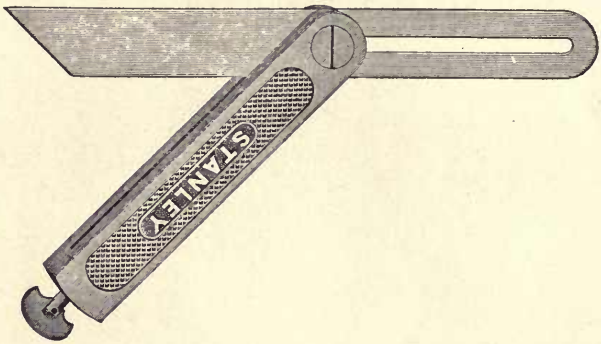


No. 2. Rosewood Stock, with Improved Flush Screw and Tempered Blade.

	6	8	10	12	14 in.
Per doz	$2.00	2.20	2.40	2.60	2.80
Each	.20	.22	.24	.26	.28

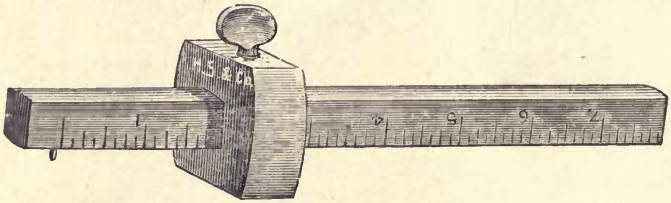
Above prices are net and subject to change without notice.

SLIDING T BEVELS.



	6	8	10 in.
No. 18. Nickel-plated Iron Stock, Steel Blade.			
Per doz.	$4.20	4.55	5.25
Each	.42	.46	.53

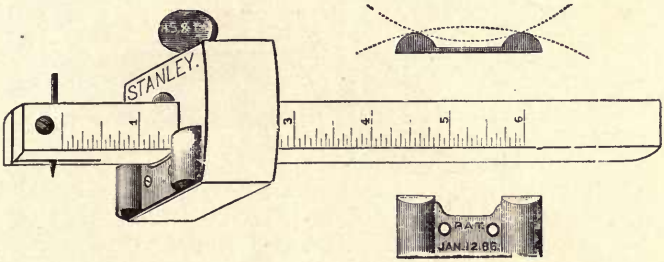
MARKING GAUGES.



No. 64. Beech. Plated Head, Boxwood Thumb Screw, Per doz., $1.18 Each, $0.12
" **64½.** " " " Brass Thumb Screw and Shoe " " 1.93 " .19
" **65.** Boxwood, Plated Head, Brass Thumb Screw and Shoe " " 2.57 " .26
" **66.** Rosewood, Oval Plated Head and Bar, Brass Thumb Screw and Shoe " " 2.57 " .26

Above prices are net and subject to change without notice.

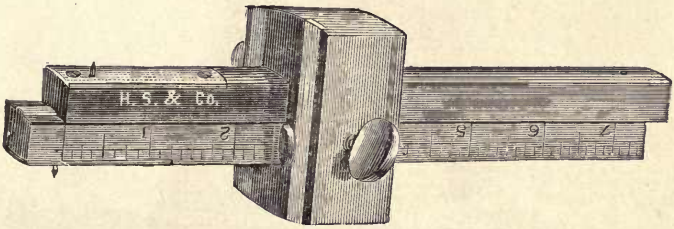
IMPROVED MARKING GAUGES.



For marking curves as well as ordinary work.

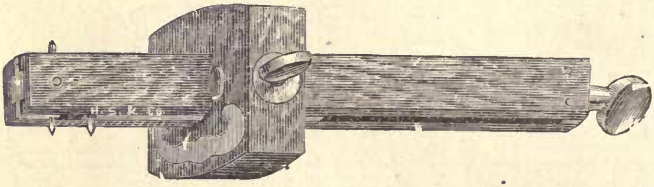
No. 162. Beech, Boxwood Thumb Screw.....Per doz., $1.30 Each, $0.13
No. 165. Boxwood, Brass " " and
Shoe, Plated Head..... ..... " " 3.00 " .30

DOUBLE MARKING AND MORTISE GAUGES.



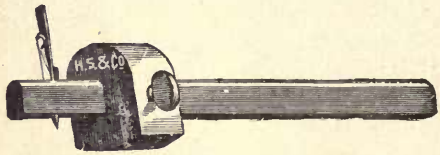
No. 71. Beech, Plated Head and Bars, Brass Thumb
Screws and Shoes .....Per doz., $3.42 Each, $0.34
No. 72. Beech, Boxwood Thumb Screws..... " " 1.70 " .17
No. 74. Boxwood, full Plated Head and Bars,
Brass Thumb Screws and Shoes..... " " 6.00 " .60

DOUBLE MARKING AND MORTISE GAUGES.



No. 77. Rosewood Plated Head, Improved Screw Slide, Brass Thumb Screws and Shoe.. ....Per doz., $4.28 Each, $0.43

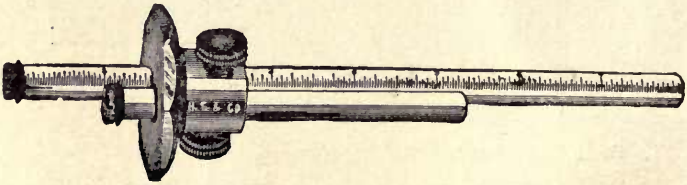
CUTTING GAUGES.



No. 9. Beech.....Per doz., $2.50 Each, $0.25
No. 13. Boxwood..... " " 4.00 " .40

BARRETT'S COMBINATION ROLLER GAUGE.

Nickel-Plated.



This tool can be used either as a single or double gauge, and in place of spurs has fine steel rollers with beveled edge, enabling them to run over knots and cross-grained wood with perfect ease and accuracy.
Each..... .....$0.90

Above prices are net and subject to change without notice.

PLUMBS AND LEVELS.

No. 00.

No. 00. Cherry, Arch Top Plate. 2 Side Views, Polished, 18, 20, 22 and 24 inch... .....Each, $0.45

No. 1¾. Mahogany, Arch Top Plate, 2 Brass Lipped Side Views, Polished and Tipped, 12, 14, 16 and 18 inch.....Each, .75

No, 104. Cherry, Arch Top Plate, 2 Side Views, Polished, 12, 14, 16 and 18 inch..... .....Each, .40

ADJUSTABLE.

No. 3. Cherry, Arch Top Plate, 2 Side Views, Polished and Tipped, 18, 20 22, 24, 26. 28 and 30 inch.....Each, $0.85

No. 9. Mahogany, Arch Top Plates, 2 Brass Lipped Side Views, Polished and Tipped, 26, 28 and 30 inch.....Each, 1.33

No. 23. Mahogany Triple Stock, Arch Top Plate, 2 Brass Lipped Side Views, Tipped and Polished, 26, 28 and 30 inch.....Each 1.28

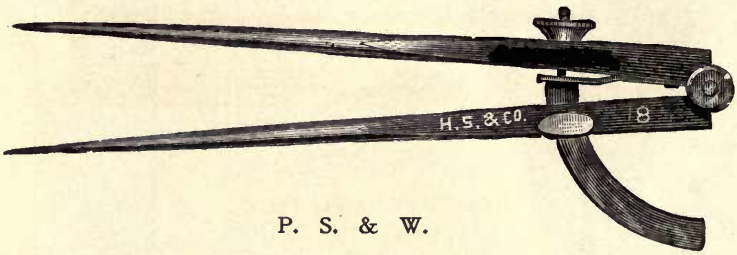
No. 23.

Above prices are net and subject to change without notice.

PLUMB BOBS.

No. 00.	18 oz.,	Iron Japanned	Per doz.,	$1.20	Each,	$0.12
No. 0.	42 "	" "	" "	2.00	"	.20
No. 5.	6 "	Brass, Steel Point	" "	3.75	"	.38
No. 6.	11½ "	" " "	" "	5.20	"	.52

WINGED DIVIDERS.



P. S. & W.

Polished Cast Steel, with Set Screw		5	6	7	8	9	10	12 in.
	Per doz.,	$1.65	1.65	1.95	2.25	2.70	3.00	3.60
	Each,	.17	.17	.20	.23	.27	.30	.36

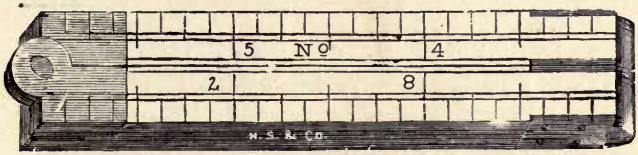
BEMIS & CALL.

Extra quality Cast Steel, Highly Polished, with Heavy Steel Joint and Set Screw		5	6	7	8	9	10	12 in
	Per doz.,	$2.80	3.00	3.65	4.10	5.00	5.50	6.60
	Each,	.28	.30	.35	.40	.50	.55	.65

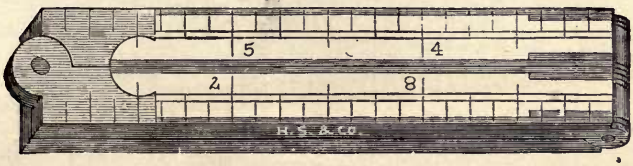
Above prices are net and subject to change without notice.

BOXWOOD RULES.

Round Joint.



Square Joint.



Arch Joint.

TWO FOOT, TWO FOLD.

(1½ inch wide when closed).

No. 1.	Round Joint, 8ths and 16ths.....	Per doz.,	$0.77	Each,	$0.08
" 2.	Square Joint, 8ths and 16ths and Octagonal Scales.....	" "	1.10	"	.11

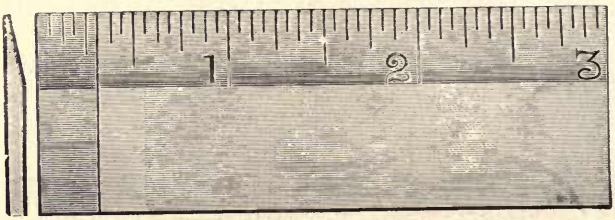
TWO FOOT, FOUR FOLD.

(1 inch wide when closed).

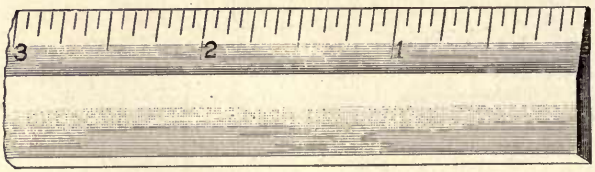
No. 41.	Round Joint, Middle Plates, 8ths and 16ths..	Per doz.,	$0.88	Each,	$0.09
" 42.	Square Joint, " " " " " " "	" "	1.10	"	.11
" 48.	Arch Joint, Edge " " 12ths and 16ths and drafting Scales	" "	1.75	"	.18

Above prices are net and subject to change without notice.

BENCH RULES.

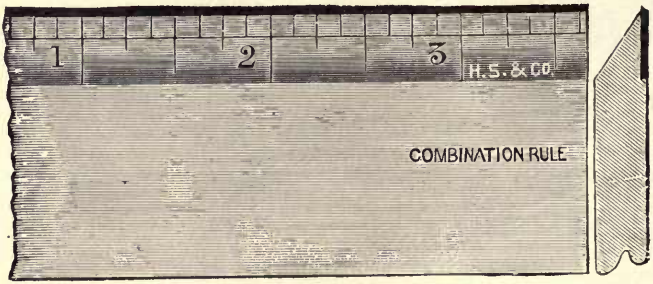


No. 1. 12 in. long, Boxwood, Brass Bound on ends. . Per doz., $3.35 Each, $0.34



No. 2. 12 in. long, Maple..... . . . ... Per doz., $0.60 Each, $0.06
No. 3. 12 in. " Boxwood..... ..... " " .90 " .09

DESK RULES.



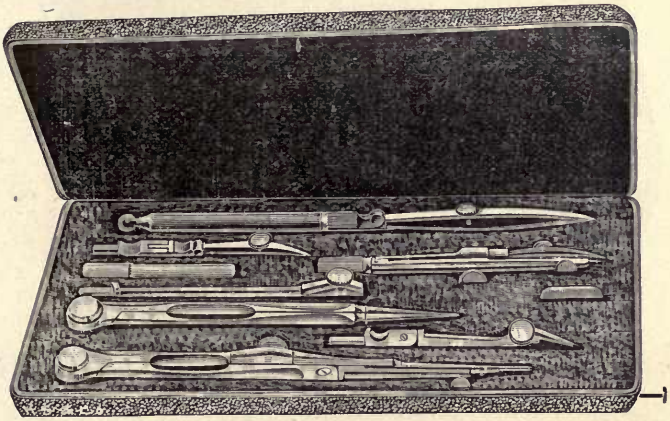
		12	15	18	24 in.
Maple, with Brass Edge.....	Per doz.,	$1.35	1.65	2.00	2.90
	Each,	.14	.17	.20	.29
Boxwood, with Brass Edge.....	Per doz.,	3.60	4.50	5.40	7.30
	Each,	.36	.45	.54	.73

Above prices are net and subject to change without notice.

DRAWING INSTRUMENTS.

IN SETS.

Brass, Nickel-plated.



No. 2589. Cloth Covered Pocket Case, containing 4½ inch Needle Point Dividers, with Pen and Pencil Points; 4 in. Plain Dividers; Drawing Pen; Protractor and Rule.....Per set, $1.00

No. 77. Morocco Pocket Case, containing 4½ in. Dividers, with Pen and Pencil Points, and Lengthening Bar 4¼ in. Plain Dividers; Drawing Pen and Protractor.....Per set, 1.00

No. 81. Morocco Pocket Case, containing 5¼ in. Needle Point Dividers, with Pen and Pencil Points, and Hinged Drawing Pen.....Per set, 1.30

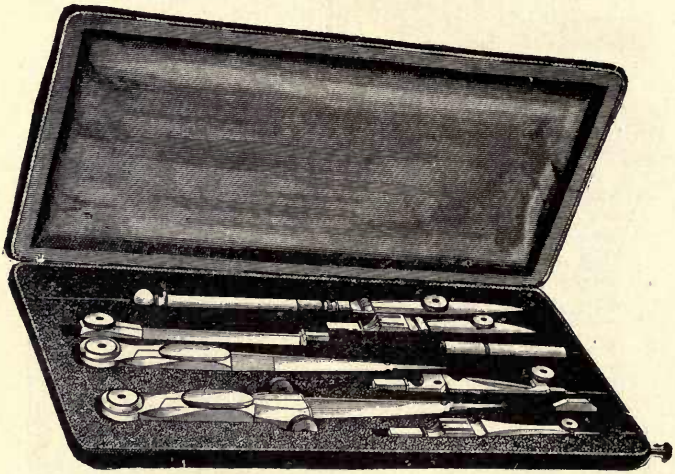
No. 83. Morocco Pocket Case, containing 5¼ in. Needle Point Dividers, with Pen and Pencil Points, and Lengthening Bar; 5¼ in. Plain Dividers; 3½ in. Spring Bow Pen and Hinged Drawing Pen.....Per set, 2.65

Above prices are net and subject to change without notice.

DRAWING INSTRUMENTS.

IN SETS.

German Silver.



No. 2472. Cloth Covered Pocket Case, containing 5½ in. Dividers, with Pencil, Pen and Needle Points, and Lengthening Bar; 5 in. Drawing Pen and Leads.....Per set, $1.55

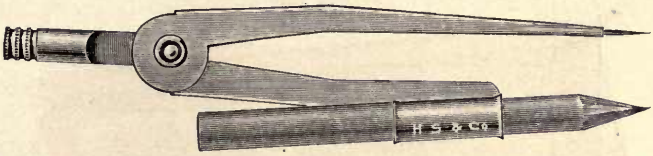
No. 279. Morocco Pocket Case, containing 5½ in. Dividers, with Pen, Pencil and Needle Points, and Lengthening Bar; 5 in. Plain Dividers, and Ivory Handle Hinged Drawing Pen...Per set, 3.20

No. 281A. Morocco Pocket Case, containing 5½ in. Fixed Needle Point Dividers, with Pen and Pencil Points, and Lengthening Bar; 5 in. Plain Dividers; Spring Bow Pen and Pencil, and 5 in. Ivory Handle Hinged Drawing Pen.....Per set, 4.25

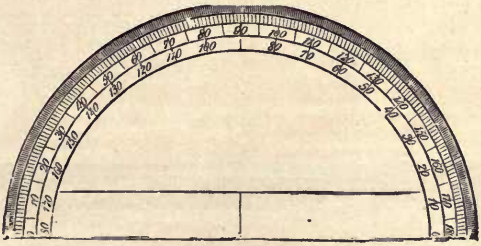
No. 282. Morocco Case, containing 5½ in. Dividers with Pen Pencil and Needle Points, and Lengthening Bar; 3½ in. Dividers with Pen, Pencil and Needle Points; 5 in. Plain Dividers; 4½ and 5½ in. Ivory Handle Hinged Drawing Pens, Needle Points Per set..... 5.55

Above prices are net and subject to change without notice.

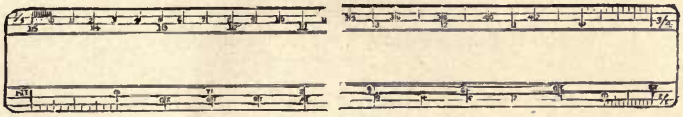
DRAWING INSTRUMENTS.



White's Compass, Nickel-plated.....Per doz., $1.65 Each, $0.17



No. 1266. Brass Protractor, semi-circular 4 in. in diameter, 1 degrees, Each, $0.20

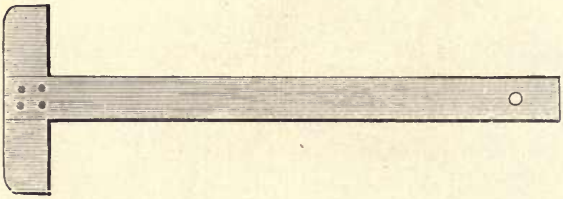


No. 556. Flat Scale, Boxwood, 12 in. long divided in $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$ and 1 inch.....Each, $0.40

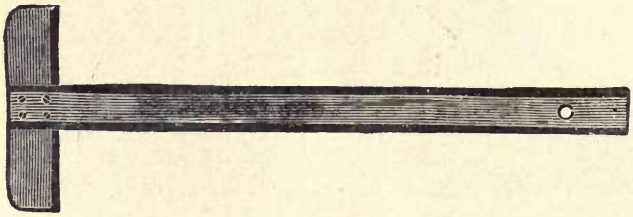
No. 488. Triangular Scale, Boxwood, 6 in. divided in $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 2, 3 and 4 in. to the foot.....Each, $0.50

No. 489. Triangular Scale, Boxwood, 12 in. divided in $\frac{3}{32}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$ $\frac{1}{2}$, $\frac{3}{4}$, 1 $1\frac{1}{2}$ and 3 in. to the foot.....Each, $0.80

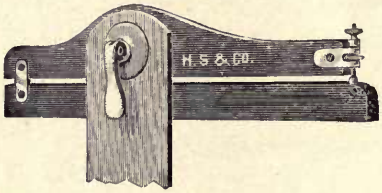
DRAWING INSTRUMENTS.



		15	18	24	30 in.
No. 363.	Pearwood T-Square, with Stationary Head.....Each,	$0.16	.18	.23	.27



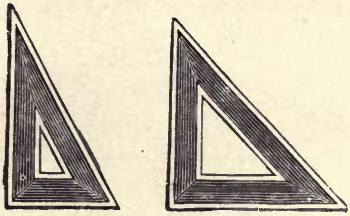
		18	24	30 in.
No. 371.	T-Square, Mahogany, Ebony Lined, Shellac Finish, Stationary Head.....Each,	$0.38	.55	.68



No. 384. T-Square, with Adjustable Walnut Head, Adjusting Screw and Highly Polished Maple Blades, Nickel-plated Trimmings.

		24	30	36	42 in.
Complete.....	Each,	$1.70	1.75	1.85	1.90

DRAWING INSTRUMENTS.



30° x 60°. 45° x 45°.

30° x 60°.

		7	9	11	13 in.
No. 124.	Pearwood Triangle.....Each,	$0.12	.15	..	..
No. 130.	Mahogany " Ebony Lined "	.30	.37	.50	.68
No. 145.	Transparent Amber Triangle "	.40	.52	..	..

45° x 45°.

		5	6	8	10 in.
No. 125.	Pearwood Triangle.....Each,	$0.10	.12	.15	..
No. 133.	Mahogany " Ebony Lined "	.27	.30	.37	.53
No. 146.	Transparent Amber Triangle "	.45	.50	.75	1.00

SCROLLS.

1 2 3 4

No.	1	2	3	4
Pearwood.....Each,	$0.15	.15	.23	.23

DRAWING BOARDS.

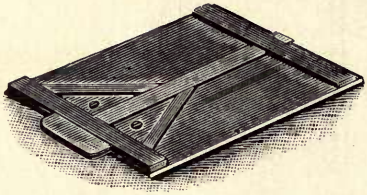
No. 442. Clear White Pine, 18 x 24 in.; with Cleats at End.....Each, $0.70

No. 444. Clear White Pine, 18 x 24 in.; Extra Heavy, with Heavy Cleats on under side..... " .95

No. 444. Clear White Pine, 20 x 26 in.; Extra Heavy, with Heavy Cleats on under side..... " 1.30

Above prices are net and subject to change without notice.

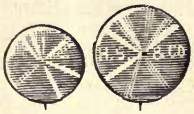
DRAWING KITS.



Each kit consists of 1 Drawing Board, 1 T-Square and 2 Triangles.

No. 1.	10 x 12 in. Board	Each,	$0.30
" **2.**	13 x 19 " "	"	.50
" **3.**	17 x 22 " "	"	.70

THUMB TACKS.



BRASSED.

No. 2.	$\frac{3}{8}$ in. diameter	Per Hundred,	$0.45	Per doz.,	$0.07
" **3.**	$\frac{1}{2}$ " "	" "	.55	" "	.08

BRASS.

No. 2.	$\frac{3}{8}$ in. diameter	Per gro.,	$0.80	Per doz.,	$0.08
" **4.**	$\frac{1}{2}$ " "	" "	.90	" "	.09

GERMAN SILVER.

No. 2.	$\frac{3}{8}$ in. Diameter	Per gro.,	$1.25	Per doz.,	$0.13
" **4.**	$\frac{1}{2}$ " "	" "	1.30	" "	.13

DRAWING PAPER.

36 inch, Unglazed.

In original rolls (about 100 lbs.)	Per lb.,	$0.08
In lots of 10 lbs	" "	.09½
Smaller quantity	" "	.12

Above prices are net and subject to change without notice.

DIXON'S DRAWING PENCILS.

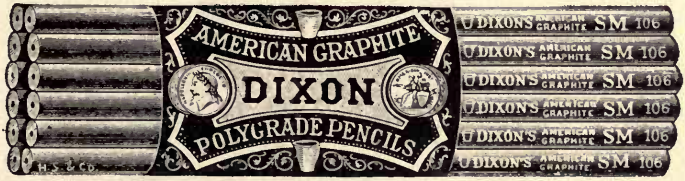
ROUND, CEDAR.

No. 268. Artisan, Rubber Plug ..... Per gro., $1.20 Per doz.. $0.12

ROUND, POLISHED CEDAR.

No.	724	725	725½
Grade of Lead,	Soft,	Medium,	Hard.

Either number ..... Per gro., $3.00 Per doz., $0.30



ROUND, POLISHED CEDAR.

No.	141	142	142½	143	144
Grade of Lead,	Soft,	Soft Medium,	Medium Black,	Medium,	Hard.

Either Number ..... Per gro., $4.75 Per doz., $0.48

Above prices are net and subject to change without notice.

CARPENTERS' PENCILS.

No. 20. Oval, White Wood, 7 in. long.....Per gro., $1.35 Per doz., $0.14

No. 511. Dixon's, Beveled Corners, Polished Cedar,
7 in. long.....Per gro., $3.40 Per doz., $0.34

NAIL SETS.

Polished, Round Knurled Handle, with $\frac{1}{16}$ to $\frac{8}{16}$ in.
Cup Points.....Per doz., $1.00 Each, $0.10

Buck Bros. Square Polished, with $\frac{1}{8}$ to $\frac{7}{32}$ in. Round
Points.....Per doz., $1.14 Each, $0.10

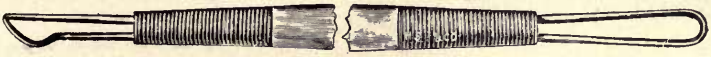
Buck Bros. Square Polished, with $\frac{1}{8}$ to $\frac{7}{32}$ in. Square
Points .....Per doz., $1.14 Each, $0.10

BOXWOOD MODELING TOOLS.

No. 301.

No. 310.

WIRE MODELING TOOLS.



No. 401.

STEEL PLASTER-CARVING TOOLS.

No. 246.

No. 121.

We issue a separate catalogue of Modeling and Plaster-Carving Tools, showing a complete line of this class of goods. A copy will be sent upon application to those having use for it.

OILERS.

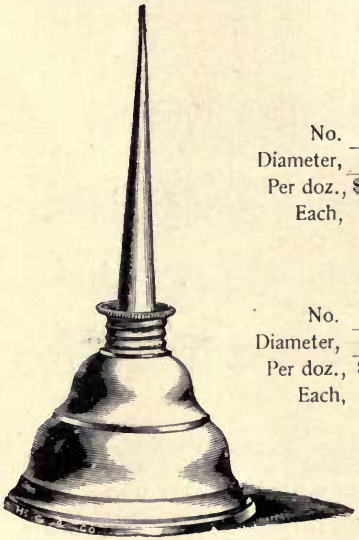
DRAPER'S PATTERN.

Steel.

No.	12	13	14A	15
Diameter,	2¾	3⅜	3¾	4¼ in.
Length of Spout	2½	3	3	3 in.
Per doz.,	$1.67	2.04	2.78	3.43
Each,	.17	.20	.28	.34

Brass.

No.	130	150
Diameter,	3⅜	4¼ in.
Length of Spout,	3	3 in.
Per doz.,	$4.80	7.20
Each,	.48	.72



CHACE'S PATTERN.

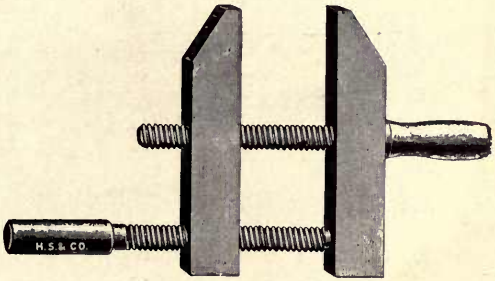
Steel.

No.	0	1	2	3	4	5	6
Diameter,	2	2½	3¼	3¾	4	4¼	4¾ in.
Per doz.,	$0.60	.70	.93	1.05	1.30	1.65	2.10
Each,	.06	.07	.09	.11	.13	.17	.21

Brass.

No.	0	1	2	3	4	5	6
Diameter,	2	2½	3¼	3¾	4	4¼	4¾ in.
Per doz.,	$1.58	1.75	2.35	2.80	3.30	4.20	5.25
Each,	.16	.18	.24	.28	.33	.42	.53

HAND SCREWS.



R. BLISS MANUFACTURING CO'S.

No.	801	802	805	807	809	811	812	813	814	816
Length of Jaw	22	20	18	16	14	12	10	8	7	4 in.
Size of Jaw	2¾x2¾	2⅝x2⅝	2⅝x2⅝	2¼x2¼	2x2	1¾x1¾	1⅝x1⅝	1⅜x1⅜	1⅛x1⅛	⅞x⅞ "
Length of Spindle	26	24	20	18	16	14	12	10	8	5 "
Diameter of Spindle	1¼	1¼	1⅛	1	⅞	¾	¾	⅝	⅝	⅝ "
Open	15½	13¾	10½	9¼	8¼	7¼	5½	4½	3	1¼ "
Per doz	$8 40	7 60	6 40	5 60	4 80	4 00	3 40	2 80	2 20	1 60
Each	84	76	64	56	48	40	34	28	22	16

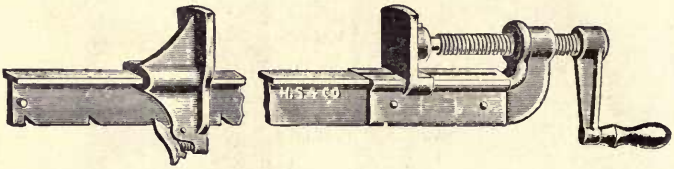
Extra Spindles or Jaws, one-third price of Complete Hand Screw.

M. ALDRICH'S, Oiled.

No.	0	2	5	10	12	14	16	17	17½
Length of Jaw	21	20	18	16	14	12	10	8	6 in.
Size of Jaw	3	3	2¾	2½	2	1¾	1⅝	1⅝	1½ "
Length of Spindle	26	24	22	18	16	14	12	10	8 "
Diameter of Spindle	1¼	1¼	1¼	1	1	¾	¾	½	½ "
Open	15	13	12	9½	8	7	5½	4	3 "
Per doz	$10 50	9 75	9 00	7 25	6 25	4 50	4 00	3 00	2 70
Each	1 05	98	90	73	63	45	40	30	27
Spindles only, Per doz	2 63	2 50	2 25	1 88	1 63	1 13	1 00	75	68
Shoulder Jaws, "	2 63	2 50	2 25	1 83	1 75	1 13	1 00	75	68
Screw Jaws, "	2 63	2 50	2 25	1 83	1 75	1 13	1 00	75	68

Above prices are net and subject to change without notice

STEEL BAR CARPENTER'S CLAMP.



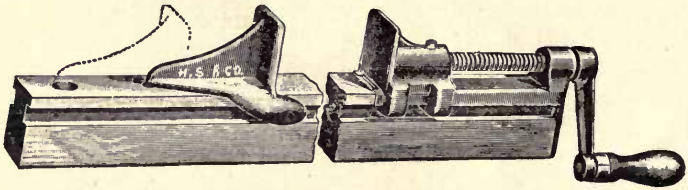
Malleable Head and Slide, Japanned. 3-16 x 1½ inch bar, ⅝ inch screw.

Open	1½	2	3	4	5 ft.
Each	$1.20	1.25	1.70	1.90	2.10

¼x1¾ inch bar, ¾ inch screw. **For extra large or heavy work,**

Open	5	6	7	8 ft.
Each	$3.20	3.60	4.00	4 65

WOOD BAR CARPENTER'S CLAMP.



This Clamp is suitable for all purposes in which wood work is required to be held firmly in a powerful clamp.

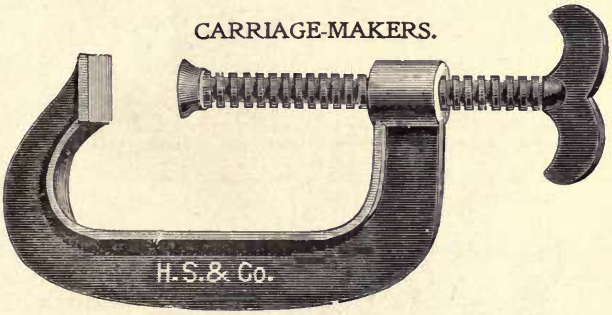
The bar is made of thoroughly seasoned hard wood, oil finished, 1¾x2⅜ inches. The jaws, crank and end plate or head are malleable, Japanned.

Open	4	5	6	8 ft
Per doz.	12.95	13.70	14.40	15.85 "
Each	1.20	1.25	1.32	1.45 "

Above prices are net and subject to change without notice.

IRON CLAMPS.

CARRIAGE-MAKERS.

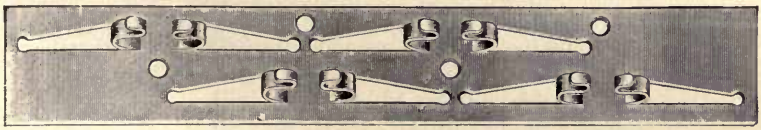


	No.	11	12	13	14	15	16	17	18	20
	Open,	2	2½	3	4	5	6	7	8	10 in.
Malleable Iron,	Per doz.,	$1.00	1.40	1.50	2.10	2.50	3.15	3.80	4.35	5.35
	Each,	.10	.14	.15	.21	.25	.32	.38	.44	.54

TOOL HOLDERS.

	Width of opening,	½	⅝	¾	1	1¼	1½ in.
Per gro		$1.00	1.00	1.00	1.25	1.25	1.50
Per doz		.10	.10	.10	.13	.13	.15

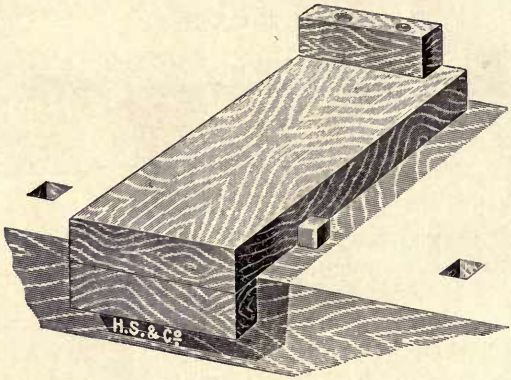
TOOL RACKS.



	No.	230	231	232
	Width of Clasp, inside	⅜	¾	1 in.
In 2 feet lengths	Per doz.,	$1.75	2.00	2.00
	Each,	.18	.20	.29

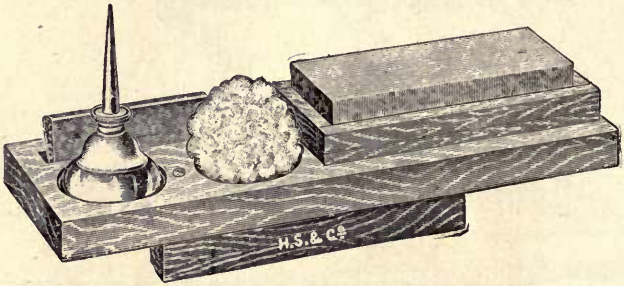
Above prices are net and subject to change without notice.

MAPLE BENCH HOOK.



For odd sawing and chiseling, so that the bench will not be marred.... .....Per doz., $2.00 Each, $0.20

SHARPENING OUTFITS.



Can be held firmly by fastening the tongue in the bench vise. When not in use it can rest on the leg braces underneath the bench, the tongue being of the proper length to go between the leg braces on our "J" bench.

No. 1. Consists of a 6 in. Red Washita Oil Stone in Mahogany case, fastened to the block, a No. O Steel Oiler and some Cotton Waste...Per doz., $10.50 Each, $1.05

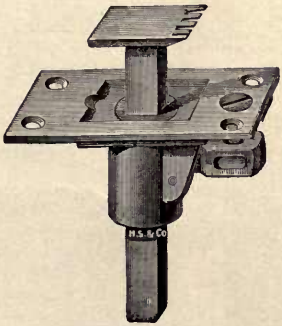
No. 2. Same as No. 1, but has also a No. 11 Red Washita Oil Slip ($3\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{5}{16}$ to $\frac{1}{8}$ in). Per " 11.75 " 1.18

Above prices are net and subject to change without notice.

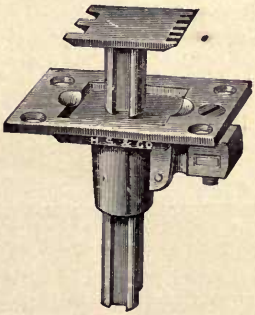
BENCH DUSTERS.

No. 2.	Black Bristles, about 9 in. of Bristles	Per doz.,	$5.20	Each,	$0.52
No. 2.	Extra Boston, White Outside, Black Center, all Bristles. About 9 in. of Bristles	" "	7.20	"	.72
No. A H 3.	All Bristles. About 9 in. of Bristles	" "	3.95	"	.40
No. 10.	Black Bristles. About 5 in of Bristles. This is our Regular Manual Training School Duster	" "	2.35	"	.24

BENCH STOPS.



Morrill's No. 1.

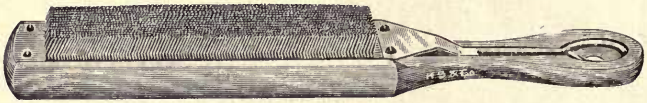


Morrill's No. 2.

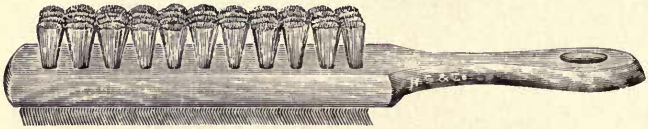
No. 1.	Morrill's	Each,	$0.50
No. 2.	"	"	.70

Above prices are net and subject to change without notice.

FILE BRUSHES.

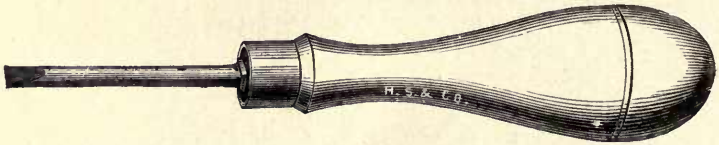


No. 1. Wire Brush.....Per doz., $1.70 Each, $0.17



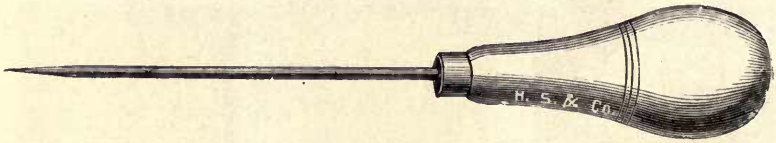
No. 2. Wire Brush and Bristle Brush.....Per doz., $3.00 Each, $0.30

HANDLED BRAD-AWLS.



Collier's, Forged Blades,	1	1⅛	1¼	1⅜	1½	1⅝	1¾	2	2¼	2½ in.
Apple Handles, Per doz.,	$0.42	.42	.42	.45	.48	.50	.53	.59	.04	.70
Each,	.04	.04	.04	.05	.05	.05	.05	.06	.00	.07

HANDLED SCRATCH-AWLS.



Collier's Forged Blades, Maple	2½	3½	4	4½	5	5½ in.
Handles, ...Per doz.,	$0.65	.80	.90	1.00	1.10	1.20
Each.,	.07	.08	.09	.10	.11	.12

Buck Bros., Heavy Forged Blades, Apple Handles (Assorted).....Per doz., $1.25 Each, $0.13

Above prices are net and subject to change without notice.

CABINET SCRAPERS.

		1 x 6	1¼ x 6	2 x 6	3 x 4	3 x 5	3 x 6 in.
Richardson's.	Per doz.,	$0.55	..	..	.55	.55	.55
	Each,	.07	..	..	.08	.09	.10
Jennings, 'Jessop Steel,	Per doz.,	..	..	..	1.90	1.90	1.90
	Each	..	..	..	.19	.19	.19
Peugeot Freres' French,	Per doz.,	1.45	1.45	1.60	1.70	1.80	2.15
	Each,	.15	.15	.16	.17	.18	.22

SCRAPER STEELS.

Square, 5 in. long, Applewood Handle.....Per doz., $1.80 Each, $0.18

SAND-PAPER CORKS.

1⅛ x 3 x 4 inches.....Per doz., $1.20 Each, $0.12
1½ x 4 x 6 " ..... " " 1.44 " .14
1½ x 4 x 12 " ..... " " 2.85 " .29

The illustrations below indicate the different cuts of Files (about) 12 in.

Bastard.

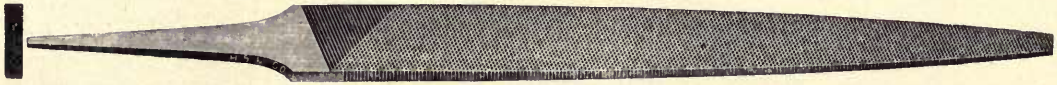
Second Cut.

Smooth.

Above prices are net and subject to change without notice.

FILES.

FLAT.



		3	3½	4	5	6	7	8	9	10	11	12 in.
K. & F., Bastard.	Per doz.,	$3.70	3.70	3.70	3.90	4.30	4.80	5.30	6.30	7.00	8.60	9.70
	Each,	.37	.37	.37	.39	.43	.48	.53	.63	.70	.86	.97
" Second Cut.	Per doz.,	4.30	4.30	4.30	4.60	4.80	5.50	6.10	7.20	8.10	9.80	11.00
	Each,	.43	.43	.43	.46	.48	.55	.61	.72	.81	.98	1.10
" Smooth.	Per doz.,	4.70	4.70	4.70	4.90	5.30	6.10	6.60	7.90	8.70	10.70	12.10
	Each,	.47	.47	.47	.49	.53	.61	.66	.79	.87	1.07	1.21

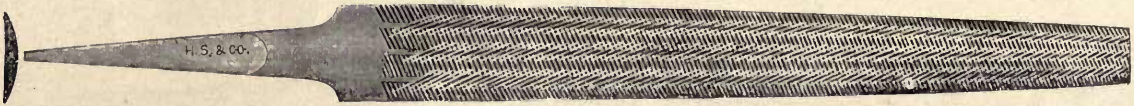
HAND.

		3	3½	4	5	6	7	8	9	10	11	12 in.
K. & F., Bastard.	Per doz.,	$3.70	3.70	3.70	3.90	4.30	4.90	5.40	6.70	7.50	9.40	10.70
	Each,	.37	.37	.37	.39	.43	.49	.54	.67	.75	.94	1.07
" Second Cut.	Per doz.,	4.30	4.30	4.30	4.70	5.10	5.80	6.30	7.80	8.70	10.90	12.30
	Each,	.43	.43	.43	.47	.51	.58	.63	.78	.87	1.09	1.23
" Smooth.	Per doz.,	4.80	4.80	4.80	5.30	5.60	6.30	6.70	8.30	9.40	11.80	13.50
	Each,	.48	.48	.48	.53	.56	.63	.67	.83	.94	1.18	1.35

Discounts upon application.

FILES.

CABINET.



		6	7	8	9	10	11	12	13 in.
Nicholson's, Special Cut for Wood.	Per doz.,	$8.10	9.30	10.10	12.20	13.70	16.80	18.70	22.40
	Each,	.81	.93	1.00	1.22	1.37	1.68	1.87	2.24

TAPER SAW.

		3	3½	4	4½	5	5½	6	7	8	9	10 in.
K. & F., Regular.....	Per doz.,	$2.10	2.10	2.20	2.40	2.60	3.00	3.40	4.30	5.40	6.60	8.10
	Each,	.21	.21	.22	.24	.26	.30	.34	.43	.54	.66	.81
" Slim.	Per doz.,	$2.10	2.10	2.20	2.30	2.50	2.90	3.10	3.80	4.50	5.40	6.40
	Each,	.21	.21	.22	.23	.25	.29	.31	.38	.45	.54	.64
Nicholson's, Regular.	Per doz.,	2.10	2.10	2.20	2.40	2.60	3.00	3.40	4.30	5.40	6.60	8.10
	Each,	.21	.21	.22	24	.26	.30	.34	.43	.54	.66	.81
" Slim.	Per doz.,	2.10	2.10	2.20	2.30	2.50	2.90	3.10	3.80	4.50	5.40	6.40
	Each,	.21	.21	.22	.23	.25	.29	.31	.38	.45	.54	.64

Discounts upon application.

RASPS.

CABINET.

		6	7	8	9	10	11	12	13 in.
Nicholson's, Coarse Cut.....	Per doz.,	$10.10	11.70	12.80	15.50	17.50	20.70	22.80	26.80
	Each,	1.00	1.17	1.28	1.55	1.75	2.07	2.28	2.68

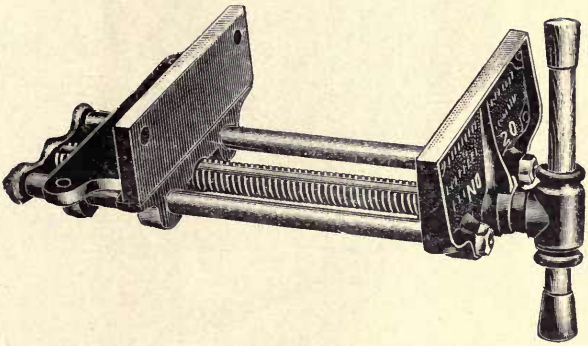
WOOD.

		6	7	8	9	10	11	12	13 in.
Nicholson's, Half Round Coarse Cut.....	Per doz.,	$ 8.10	9.30	10.10	12.20	13.70	16.80	18.70	22.40
	Each,	.81	.93	1.00	1.22	1.37	1.68	1.87	2.25

Discounts upon application.

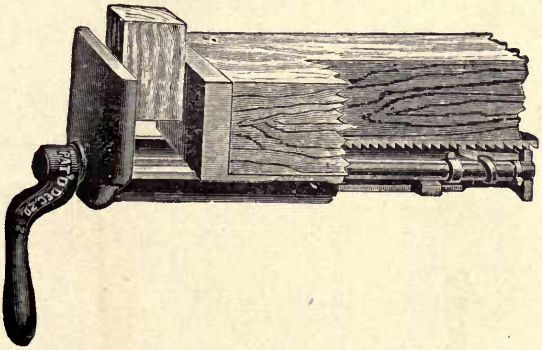
WOODWORKERS' VISES.

TOLE'S.



No. 20. Rapid Acting Flush Vise, Jaws 10 in., open 12 in.....Each, $5.40

CHAMPION.

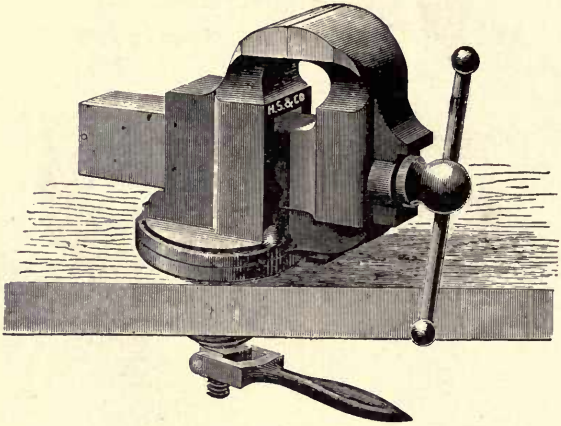


9 inch Jaws, opens 12 inches..... .....Each, $4.70

Above prices are net and subject to change without notice.

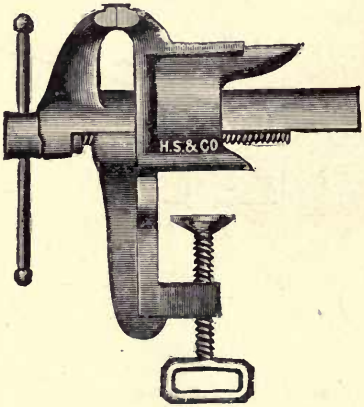
SWIVEL VISES.

SIMPSON'S.



This vise is operated the same as an ordinary screw vise, but can be instantly closed or opened full length by slightly raising front jaw.

No. 11. Jaws 2½ in., opens 2¾ in.....Each, $2.80
No. 12. " 2¾ " " 3¼ "..... " 3.85



BENCH VISES.

PHOENIX.

No.	Jaws.	Opens.	Each.
2½	1½ in.	1¾ in.	$0.30
2¾	1¾ "	2 "	.58
3½	2 "	2¼ "	.88
4½	2½ "	2¾ "	1.40

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